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UNITED STATES COPYRIGHT ROYALTY JUDGES

# The Library of Congress -----X IN THE MATTER OF: ) DETERMINATION OF ROYALTY ) Docket No. RATES AND TERMS FOR ) 16-CRB-0001-SR/PSSR TRANSMISSION OF SOUND ) (2018-2022) RECORDINGS BY SATELLITE ) RADIO AND "PREEXISTING" )

## REVISED AND CORRECTED TRANSCRIPT

### OPEN SESSIONS

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SUBSCRIPTION SERVICES

(SDARS III)

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1	UNITED STATES COPYRIGHT ROYALTY JUDGES
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9	RECORDINGS BY SATELLITE )
10	RADIO AND "PREEXISTING" )
11	SUBSCRIPTION SERVICES )
12	(SDARS III) )
13	X
14	BEFORE: THE HONORABLE SUZANNE BARNETT
15	THE HONORABLE JESSE M. FEDER
16	THE HONORABLE DAVID R. STRICKLER
17	
18	Library of Congress
19	Madison Building
20	101 Independence Avenue, S.E.
21	Washington, D.C.
22	April 26, 2017
23	9:07 a.m.
24	VOLUME V
25	Reported by: Karen Brynteson, RMR, CRR, FAPR

1	APPEARANCES:
2	On behalf of SoundExchange, The American Federation
3	of Musicians of the United States and Canada, Screen
4	Actors Guild and American Federation of Television
5	and Radio Artists, American Association of
6	Independent Music, Universal Music Group, Warner
7	Music Group, RIAA:
8	DAVID A. HANDZO, ESQ.
9	STEVEN R. ENGLUND, ESQ.
10	JARED O. FREEDMAN, ESQ.
11	ALEX TREPP, ESQ.
12	KENDALL TURNER, ESQ.
13	DEVI RAO, ESQ.
14	SAM BIRNBAUM, ESQ.
15	PREVIN WARREN, ESQ.
16	Jenner & Block, LLP
17	1099 New York Avenue, N.W., Suite 900
18	Washington, D.C. 20001
19	202-639-6000
20	On behalf of Sony Music Entertainment:
21	ROLLIN A. RANSOM, ESQ.
22	PETER I. OSTROFF, ESQ.
23	Sidley Austin LLP
24	555 W. Fifth Street, Suite 4000

Los Angeles, CA 90013

1	APPEARANCES (Continued):
2	On behalf of Sirius XM Radio, Inc.:
3	R. BRUCE RICH, ESQ.
4	RANDI W. SINGER, ESQ.
5	TODD D. LARSON, ESQ.
6	JACOB EBIN, ESQ.
7	MEREDITH SANTANA, ESQ.
8	Weil, Gotshal & Manges LLP
9	767 Fifth Avenue
10	New York, New York 10153
11	212-310-8007
12	
13	ADAM TOLIN, ESQ.
14	Weil Gotshal & Manges, LLP
15	17 Hulfish Street
16	Princeton, New Jersey 08542
17	809-986-1105
18	
19	
20	
21	
22	
23	
24	
25	

1	APPEARANCES (Continued):	
2	On behalf of Music Choice:	
3	PAUL FAKLER, ESQ.	
4	JOHN SULLIVAN, ESQ.	
5	MARGARET WHEELER-FROTHINGHAM, ES	Q.
6	Arent Fox LLP	
7	1675 Broadway	
8	New York, New York 10019-5874	
9	212-484-3990	
10		
11	JACKSON TOOF, ESQ.	
12	Arent Fox LLP	
13	1717 K Street, N.W.	
14	Washington, D.C. 20006	
15	202-857-6395	
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1	PROCEEDINGS
2	(9:07 a.m.)
3	JUDGE BARNETT: Good morning. Please be
4	seated.
5	You might have detected that we are not
6	all at the peak of health, so if you have hand
7	sanitizer, you should use it.
8	Are we ready for cross-examination
9	MR. RICH: We are, Your Honor.
10	JUDGE BARNETT: of this witness?
11	Whereupon
12	JONATHAN ORSZAG,
13	a witness, called for examination, having previously
14	been duly sworn, was examined and testified further
15	as follows:
16	JUDGE BARNETT: Let me just ask,
17	Mr. Fakler, do you have any questions for this
18	witness?
19	MR. FAKLER: No, Your Honor. Thank you.
20	JUDGE BARNETT: Okay. Then, Mr. Rich,
21	it's all you.
22	MR. RICH: Thank you. I'll keep my
23	distance, Your Honor.
24	CROSS-EXAMINATION

25 BY MR. RICH:

- 1 Q. Good morning, Mr. Orszag.
- 2 A. Good morning, Mr. Rich.
- O. You testified you have a Master's in
- 4 economics and social history; is that correct?
- 5 A. That is correct.
- 6 Q. And that you, in your words, made a
- 7 decision not to pursue a Ph.D.; is that correct?
- 8 A. That is correct.
- 9 Q. And as a result, you do not hold a Ph.D.
- 10 in economics; is that right?
- 11 A. That is correct.
- 12 Q. Or in any other academic field?
- 13 A. That is correct.
- Q. All right. And you've done a couple of
- 15 teaching stints; I believe you testified?
- 16 A. Yes, sir.
- 17 Q. All right. And am I right that one of
- 18 those was during the summer of 1997 at a prep
- 19 school?
- 20 A. I went back to my high school to teach,
- 21 yes, sir.
- O. And the second was one academic semester
- 23 in 2002 at USC?
- 24 A. That is correct.
- Q. As an adjunct lecturer?

- 1 A. That is correct.
- Q. Okay. Now, in your consulting capacity,
- 3 you've provided testimony in other court and
- 4 administrative proceedings?
- 5 A. That is correct.
- Q. A number of which you listed on your
- 7 curriculum vitae, yes?
- 8 A. I believe everything that I've testified
- 9 in is listed there.
- 10 Q. Okay. And that was my next question. I
- 11 didn't see, but it's entirely possible that I missed
- 12 it, your work on behalf of AEtna and Humana in
- 13 relation to a government challenge to the proposed
- 14 merger of those health insurance companies on
- 15 antitrust grounds. Is that in your resume?
- 16 A. It -- that case, I believe, was after
- 17 this one was filed, but my updated resume has that
- 18 information.
- 19 Q. Okay. I'm not sure it made it into your
- 20 -- well, let me just be clear. So do you recall
- 21 when your work began on that engagement?
- 22 A. Well, the beginning of it was June of
- 23 2015. The reports were filed sometime in the fall
- 24 of 2016 with the trial in, I believe, it was
- 25 December of 2016, and so I had a report, I think --

- 1 I'm going to say I had a report on November 1st, and
- 2 that's it.
- Q. Okay. And the trial was -- as you point,
- 4 out, it was in December. That would have been
- 5 before you submitted your amended written direct
- 6 testimony here on January 5th; is that right?
- 7 A. The trial, yes, sir.
- Q. Okay. And prior to yesterday's
- 9 appearance here and today's, was that your most
- 10 recent testimonial experience?
- 11 A. Other than the deposition in this case, I
- 12 believe that to be the case, although on my web
- 13 site, it has my current CV, so if there was another
- 14 written testimony, it would be in there.
- 15 Q. I meant sort of live, in-person
- 16 testimony.
- 17 A. Oh, the only -- yeah, that last thing was
- 18 the AEtna/Humana matter.
- 19 Q. Yeah. I take it you're aware of the
- 20 ensuing decision by the Federal District Court which
- 21 was issued in January of this year; is that correct?
- 22 A. That is correct.
- MR. RICH: And the case, for Your Honors'
- 24 information, is styled United States versus Aetna
- 25 et al. I can only provide a Westlaw cite at the

- 1 moment, which is 2017 Westlaw, beginning 325189,
- 2 opinion issued I believe right here in the District
- 3 Court in the District of Columbia, January 23rd of
- 4 this year.
- 5 THE WITNESS: Yeah, from Judge Bates.
- 6 BY MR. RICH:
- 7 Q. Okay. And am I correct that in that
- 8 decision, the Court determined that the government
- 9 had established a prima facie case that the proposed
- 10 merger would substantially lessen competition in the
- 11 relevant market there?
- 12 A. That is -- I mean, precise legal words --
- Q. Understood.
- 14 A. -- as an economist -- they -- the judge
- 15 ruled to block the merger.
- 16 Q. Fair enough. And that the effort by the
- 17 two companies to submit sufficient pro-competitive
- 18 attributes did not ultimately carry the day before
- 19 the Court?
- 20 A. That is correct.
- 21 Q. All right. And on behalf of the proposed
- 22 merging companies, you presented testimony on the
- 23 probable economic effects of the merger; is that
- 24 correct?
- 25 A. That is correct.

- 1 Q. In support of which you testified as to
- 2 matters relating to market definition?
- 3 A. That is correct.
- Q. As to the proper method for applying the
- 5 so-called hypothetical monopolist test?
- A. That is one of the issues I testified on.
- 7 Q. Can you tell the Court what the
- 8 hypothetical monopolist test is, please, in simple
- 9 terms?
- 10 A. I'll do the one- or two-sentence version,
- 11 and then if anybody wants more detail, I'm more than
- 12 happy to provide it. In merger analysis, in
- 13 competition analysis, a key question is what is the
- 14 relevant antitrust market? And the method that is
- 15 used by economists is the hypothetical monopolist
- 16 test, which assumes that there is a hypothetical
- 17 monopolist over the putative product, or if the
- 18 product is, let's say in this case, Medicare
- 19 Advantage, so that's health insurance for elderly
- 20 Americans that's provided -- privately provided, you
- 21 assume a hypothetical monopolist and you test
- 22 whether if that hypothetical monopolist raised
- 23 prices by 5 to 10 percent, whether that would be a
- 24 profitable endeavor.
- 25 If it's profitable, that is a properly

- 1 defined relevant market. If it's unprofitable for
- 2 that hypothetical monopolist to do it, then the
- 3 market is incorrectly specified.
- Q. Thank you. And I take it that some or
- 5 all of that principle is set out in the DOJ
- 6 Horizontal Merger Guidelines?
- 7 A. It is all set out in the Horizontal
- 8 Merger Guidelines.
- 9 Q. Okay. And I take it that another aspect
- 10 of your testimony in that litigation bore on the
- 11 subject of the relationship between market
- 12 concentration and prices in the relevant market; is
- 13 that correct?
- 14 A. That is correct. I did an econometric
- 15 analysis of that issue.
- 16 Q. Now, the District Court rejected the
- 17 market definition you proposed in favor of the
- 18 government's proposal; is that correct?
- 19 A. That is correct.
- 20 Q. And the judge found that at least a part
- 21 of your analysis was "almost entirely speculative"?
- 22 A. I think that quote actually -- he said
- 23 that about both experts because neither of us had
- 24 information on a point that we were making, so he
- 25 said Professor Nevo, who testified on behalf of the

- 1 government, and I both had to speculate about that
- 2 point. And so he -- he moved on to then other
- 3 factors.
- 4 Q. The Court similarly found that the
- 5 regressions you ran to support the limited extent of
- 6 head-to-head competition between the two companies
- 7 was of "limited" persuasive value; is that correct?
- 8 A. I don't remember the precise quote, but
- 9 I'm not going to argue with you that he used those
- 10 words.
- 11 Q. And that the analysis you presented
- 12 demonstrating the ease of entry in the market
- 13 demonstrated "circular reasoning" that assumed its
- 14 conclusion?
- 15 A. Yeah, I actually disagree with his
- 16 discussion there, but it's a relatively minor point
- 17 in the overall analysis of the issue. If you're
- 18 going to pick up quotes, you should maybe want to
- 19 pick up other quotes about how he pointed to
- 20 analyses that were correct and analyses where he
- 21 said that it was helpful to the Court to present
- 22 them that way.
- Q. Well, I'm sure Mr. Handzo could
- 24 rehabilitate that in any fashion he -- he sees fit.
- 25 But I didn't misquote the judge in any of the quotes

- 1 I cited, correct?
- 2 A. I didn't memorize the decision, so I
- 3 can't give -- I can't -- but I'm not going to
- 4 disagree with you.
- 5 Q. Okay. Now in A-10 of your appendix,
- 6 which is your vitae, you list another testimonial
- 7 experience, this one four bullets from the bottom,
- 8 In re Electronic Books Antitrust Litigation, State
- 9 of Texas et al. v. Penguin Group; is that correct?
- 10 A. That is correct.
- 11 Q. And, colloquially, a number of folks
- 12 think of that as the E-books antitrust case,
- 13 correct?
- 14 A. Yes, sir.
- 15 Q. And am I correct that that involved
- 16 price-fixing claims asserted against Apple and
- 17 Google book publishers in relation to the sale of
- 18 E-books?
- 19 A. That is correct.
- 20 O. And you served in that matter as an
- 21 expert for Apple and prepared, as you note in your
- 22 resume, several expert declarations?
- 23 A. That is correct.
- Q. Okay. Now, those were the subject of
- 25 Daubert motions directed to the various opinions you

- 1 put forward; is that also true?
- 2 A. On certain matters, yes, and on certain
- 3 matters, no.
- 4 O. Yes. And I take it you're familiar that
- 5 the District Court Judge Cote, in the Southern
- 6 District of New York, granted that motion as to what
- 7 she characterized as three of the four principal
- 8 sets of opinions that you put forward; is that also
- 9 correct?
- 10 A. I don't remember the precise language.
- 11 The way I think about it is I had two major
- 12 analyses; I had an econometric analysis, which she
- 13 -- she accepted, and then there was an offsetting
- 14 analysis in terms of outside the relevant market,
- 15 which she rejected as a matter of law and then she
- 16 criticized. And there were components of that
- 17 offsetting analysis, so that was put to the -- so
- 18 the way I've always thought about it is two parts,
- 19 and she accepted the econometric analysis and she
- 20 rejected and then criticized the other analysis.
- 21 O. And with respect to the analysis that she
- 22 criticized, she found that one aspect of it was
- 23 "unmoored from record facts and unsupported by any
- 24 rigorous analysis"; is that your recollection?
- 25 A. She had quotes like that. I -- I don't

- 1 remember the precise words.
- 2 O. And that she said it reflected a
- 3 hypothesis that rested on "layers of assumptions,
- 4 many of which are untethered to the real world or at
- 5 odds with the facts"; correct?
- A. Those were her words, yes, sir.
- 7 Q. That it purported to measure the effect
- 8 of competition within the E-reader market without
- 9 undertaking an examination of that market or
- 10 performing a study? Correct?
- 11 A. I don't have it in front of me so I can't
- 12 -- I didn't memorize the decision.
- Q. Do you recall her characterizing it as
- 14 inviting, engaging in guesswork?
- 15 A. I don't remember those precise words.
- 16 It's not something I committed to memory.
- 17 Q. Okay. That's fair.
- 18 Now, before we turn to the bases for the
- 19 opinions you offer in this proceeding, let me see if
- 20 the following statements fairly capture the essence
- 21 of the affirmative opinions you're setting forth as
- 22 to the setting of rates. And this is really
- 23 intended just to fairly summarize, at least, and
- 24 boil down several of those. And you can feel free
- 25 to round them out in any way you'd like.

- 1 The first is that you agree that the
- 2 rates to be set here by the Judges with due regard
- 3 for the 801(b) factors must reflect the workings of
- 4 effective competition; is that correct?
- 5 A. I can agree to that proposition, yes,
- 6 sir.
- 7 Q. Okay. You proposed, as the optimal
- 8 benchmark for rate setting, the rates reflected in a
- 9 current body of license agreements, 27 to be exact,
- 10 entered into between the major record companies and
- 11 subscription interactive services. Is that also
- 12 correct?
- 13 A. Yes, sir.
- 14 Q. You recognized that the Judges in Web IV
- 15 found that the upstream market for licensing such
- 16 interactive services featured complementary
- 17 oligopoly conditions and a complete lack of price
- 18 competition between and among record companies for
- 19 increased shares of plays on such services? Is that
- 20 correct?
- 21 A. I think the general description is -- is
- 22 directionally correct at that time; I would have to
- 23 add --
- O. At that time.
- 25 A. -- at that time, although the precise

- 1 words for that I defer to the decision itself.
- 2 Q. Fair enough. You nevertheless have
- 3 concluded that competitive conditions in that
- 4 licensing market have improved such that that market
- 5 is increasingly effectively competitive? Is that a
- 6 fair characterization?
- 7 A. The -- the trends point in that
- 8 direction, yes, sir.
- 9 Q. You believe that the Judges in Web IV
- 10 broadly validated the concept of ratio equivalency
- 11 and that the approaches to rate setting reflected in
- 12 your approaches 1 and 2 accurately implement that
- 13 principle? Is that fair?
- 14 A. That methodology, yes, sir.
- Q. You also believe that since the time the
- 16 Judges in Web IV set the rate for statutorily
- 17 compliant subscription webcasters, based on the
- 18 contract per-play rates drawn from a series of
- 19 interactive license agreements, market conditions
- 20 have evolved; and current marketplace evidence,
- 21 including recent agreements entered into by Pandora
- 22 and iHeart for mid-tier service, warrant adopting
- 23 rates at the levels you propose?
- A. I would just articulate that slightly
- 25 differently --

- 1 Q. Please do.
- 2 A. -- if I may.
- 3 Q. Please do.
- 4 A. I would just -- my analysis focuses on
- 5 current market conditions. And so I'm analyzing
- 6 what the market looks like today.
- 7 As I think I've expressed, I wasn't part
- 8 of the Web IV decision. So what was in place at
- 9 that time, I defer to the record and others. So
- 10 what I'm looking at is what's the current market
- 11 conditions.
- 12 And to the extent that they show
- 13 something different than what is presented in the
- 14 Web IV decisions, say, then the assumption is that
- 15 the market conditions have changed because I have
- 16 not done a detailed analysis looking at how the
- 17 market has changed. I'm looking at -- I'm -- I'm
- 18 starting from a blank slate in some sense of what
- 19 are the market agreements in place today that should
- 20 govern the ratio equivalency today.
- 21 Q. You would agree with me, however, that
- 22 sprinkled throughout your written direct and
- 23 rebuttal testimony are references to the prior time
- 24 periods and agreements as obsolete, dated, and not
- 25 reflecting current market conditions, correct?

- 1 A. That is correct. So, for example, I talk
- 2 about how the Pandora/Merlin deal is now obsolete
- 3 because there is a newer deal in place. I talk
- 4 about how the fact that there is increasingly
- 5 connected cars and so that is forcing convergence,
- 6 and -- and those are facts that I have gleaned from
- 7 the record evidence in this case.
- 8 Q. And the last base point I just want to
- 9 set forward -- and I don't mean to suggest you have
- 10 nothing else as part of your case, but these are
- 11 sort of distillations for my purposes -- that if,
- 12 but only if the Judges conclude that a steering
- 13 adjustment remains warranted to compensate for
- 14 remaining differences in the competitive conditions
- 15 observed in the benchmark and target markets, they
- 16 should employ a steering adjustment up to
- 17 12 percent?
- 18 A. Or that's within the reasonable range,
- 19 yes, sir.
- Q. Okay. So I'd like to now examine the
- 21 bases for certain of those opinions. Let's start
- 22 with the state of competition in the interactive
- 23 services market.
- Now, you've been retained here by the
- 25 same litigating party, SoundExchange, as litigated

- 1 Web IV for the record industry, correct?
- A. I believe that to be the case, but it's
- 3 not something I studied at that -- whether there
- 4 were other parties, I'm not sure.
- 5 Q. You understand, for example, that the
- 6 same major labels who were involved as litigants in
- 7 the Web IV proceeding are equally involved in this
- 8 proceeding, correct?
- 9 A. Yes, I do understand that.
- 10 O. And you've been given access to
- 11 knowledgeable executives at those labels to give you
- 12 pertinent background for your testimony, correct?
- 13 A. That is correct. I interviewed a number
- 14 of the executives at the various major labels.
- 15 Q. Right, and so you indicated in your
- 16 written direct testimony. And while you assert that
- 17 the interactive service market has become
- 18 increasingly workingly competitive, you never asked
- 19 those senior executives with whom you met whether
- 20 the companies engage in price competition in
- 21 licensing interactive services, did you?
- 22 A. You know, that was not the topic of the
- 23 -- my conversation with those business executives.
- 24 Q. So you didn't inquire either currently or
- 25 back in time, including as of Web IV, whether they

- 1 were aware of the degree of such price competition?
- 2 You say that wasn't something you were inquiring
- 3 about, correct?
- 4 A. That is correct.
- 5 Q. And while you assert that the interactive
- 6 service market has become increasingly workingly
- 7 competitive, you cite no evidence of any price
- 8 competition, in the form of steering to induce
- 9 greater market share, having emerged in that market
- 10 since the time of the Web IV decision, do you?
- 11 A. Well, except for -- and I talked about
- 12 this in my direct testimony; I remember yesterday, I
- 13 quess I should say -- the presence in the Pandora
- 14 and iHeart deals of an anti-steering provision in
- 15 one and no anti-steering provision in another, and
- 16 how that influenced their decisions per the business
- 17 executives.
- 18 JUDGE STRICKLER: I have a question for
- 19 you, sir. Those anti-steering provisions that --
- 20 that you're saying were not there, and that by
- 21 contrast were there in other agreements, do those
- 22 refer to steering in the -- in the downstream market
- 23 or the upstream market? Or both or neither?
- 24 THE WITNESS: So the -- the provision in
- 25 the Pandora deal -- and I didn't commit it from

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memory so I'm doing this from memory -- says that --
    something to the effect -- and we can get the actual
2
    document if we want to look at it precisely -- that
3
    Pandora will ensure that -- that the amount of plays
    for a particular label, so let's just say -- is
5
 6
    this?
 7
               MR. HANDZO: Sorry, Your Honor.
                                                 I think
    since we're talking about specific terms in the
 8
    agreement, this is probably restricted information.
 9
               JUDGE BARNETT: We will -- we'll close
10
    the doors.
11
12
                (Whereupon, the trial proceeded in
    confidential session.)
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- 1 OPEN SESSION
- 2 BY MR. RICH:
- Q. Let's turn to the topic of convergence
- 4 next. You consider subscription interactive
- 5 services to be the best available benchmark for
- 6 satellite radio due to the comparability of the two
- 7 types of service along key dimensions? Is that
- 8 correct?
- 9 A. That's a fair description, yes, sir.
- 10 Q. Okay. And in your written direct
- 11 testimony, you state, paragraph 30, I want to get it
- 12 near you, "Importantly, there is no difference
- 13 between interactive streaming services and satellite
- 14 radio in terms of the music content they deliver to
- 15 subscribers."
- 16 Do you see that?
- 17 A. Yes, sir.
- 18 Q. The point you're making here, I take it,
- 19 is simply that both Sirius XM and interactive
- 20 services perform music, right?
- 21 A. Correct. Well, they don't technically
- 22 perform the music. They distribute it.
- 23 Q. Distribute music for performance. Thank
- 24 you. And that comparability doesn't make the
- 25 interactive services a better benchmark than any

- 1 other form of music distribution, does it?
- 2 A. Well, it does for -- relative to some
- 3 benchmarks, and that's the point. That's why I
- 4 excluded, for example, Services that were more
- 5 narrowly tailored in terms of their music
- 6 repertoires. So, for example, the -- the classical
- 7 music service would not be an appropriate benchmark
- 8 for something like Sirius XM, which is offering the
- 9 full repertoire of music.
- 10 Q. But insofar as you just, I believe,
- 11 agreed with me, that the limited point you were
- 12 making, as far as this element goes, is that both
- 13 Sirius XM and interactive services distribute music?
- 14 That's not a very narrowing conception of
- 15 competition, is it?
- 16 A. No. And I'm not claiming -- trying to
- 17 claim that -- this does not exclude all other
- 18 benchmarks, this one sentence in and of itself, for
- 19 sure.
- 20 Q. Okay. So let's keep going. In paragraph
- 21 32 of your written direct testimony, you set forth
- 22 some other key respects, as you put it, in which
- 23 Sirius XM and interactive subscription services are
- 24 similar.
- 25 Am I correct about that?

- 1 A. Yes, sir.
- Q. All right. And in that paragraph, you
- 3 assert that Sirius XM and subscription interactive
- 4 services have "increasingly converged"?
- 5 A. Yes, sir.
- Q. And in support of that proposition, you
- 7 point out that interactive services offer "lean-back
- 8 functionality as well as algorithmic streams,"
- 9 correct?
- 10 A. That is correct.
- 11 Q. Now, those are both ways in which, I
- 12 think you would agree with me, subscription
- 13 interactive services have become more like Sirius
- 14 XM, correct?
- 15 A. That is correct.
- Q. But you don't list any ways in which
- 17 Sirius XM has become more like subscription
- 18 interactive services, correct, in terms of its own
- 19 change?
- 20 A. Not here I do not, no.
- Q. And that's because Sirius XM's service
- 22 hasn't changed; isn't that correct?
- 23 A. So let's pause on that for a second, if I
- 24 may, and say that the satellite service in terms of
- 25 the music content, the non-music content, I have not

- 1 ascertained significant changes in -- in a long
- 2 period of time.
- 3 Obviously, they've added new
- 4 functionality that, with the subscription, you can
- 5 get, for example, service -- if you pay for a
- 6 certain -- at a certain price, you get service via
- 7 an app A service as well. That years ago was not
- 8 available. So there have -- have been those changes
- 9 to get more mobility if you are a subscriber at a
- 10 certain level to Sirius, which would then bring it
- 11 closer together to the interactive services.
- So -- I know this proceeding is a only
- 13 about the satellite part of it --
- 14 Q. Right.
- 15 A. -- but with the subscription, they are
- 16 providing consumers functionality that bring those
- 17 together in terms of the consumer perspective.
- 18 Q. But with respect to the satellite part of
- 19 it, you've not identified any convergence towards
- 20 interactive services; the convergence, as you term
- 21 it, has been one way, correct?
- 22 A. But when you're a consumer, you don't
- 23 focus -- at least there's not evidence that they
- 24 focus on the mode of transmission, and so when you
- 25 offer a consumer now the option to also subscribe --

- 1 when you subscribe at a higher level, you get
- 2 additional functionality like having an app with
- 3 music on it, that provides a benefit to the consumer
- 4 bringing from the consumer perspective the Sirius XM
- 5 option closer together to the -- to the interactive
- 6 option.
- 7 Q. The changes you describe on the part of
- 8 interactive services is away from interactivity
- 9 towards less interactive streams of record label
- 10 sound recordings, correct?
- 11 A. It's -- it's in response to consumer
- 12 demand. Consumers are increasingly using the
- 13 lean-back functionality more so than -- so I think
- 14 we have to -- the consumers are driving a lot of
- 15 this behavior.
- 16 Q. Right. Less, rather than more,
- 17 interactivity on the part of the consumers, correct?
- 18 A. That consumers are looking for --
- 19 consumers are using the product in such a way.
- 20 Q. Now, notwithstanding the direction of
- 21 that market change, it's your opinion that Sirius
- 22 XM's rate should immediately more than double,
- 23 correct?
- A. Well, I don't agree to the proposition
- 25 about the calculation of the numbers for the reasons

- 1 I articulated yesterday. But what I'd say is that
- 2 if you use current market-based rates, the rate is
- 3 as I described in my direct testimony or in my
- 4 presentation.
- 5 Q. But we're not doing this completely in a
- 6 vacuum; you would acknowledge that the immediate
- 7 impact of adopting your rates would be to more than
- 8 double the rates Sirius XM is currently paying,
- 9 correct?
- 10 A. The -- the rates at Sirius XM would
- 11 increase by roughly double. And given there are
- 12 very high margins, and Professor Lys has a
- 13 significant amount of information in his testimony
- 14 about this, they have more than enough financial
- 15 wherewithal to withstand such an increase in cost.
- 16 O. So you're recommending to the Judges that
- 17 based on Sirius XM's ability to pay, they should
- 18 rule in this proceeding?
- 19 A. That's not -- that's a consideration.
- 20 When one determines market rates, the analysis of
- 21 the 801(b) factors would suggest that one
- 22 consideration would be whether those market rates
- 23 would be sustainable for a new or emerging business,
- 24 but as you're proposing or discussing, it seems to
- 25 me, you're seeming to suggest that if one gave -- if

- 1 one had to decrease the rate in the past because it
- 2 was a new or emerging business, there should -- that
- 3 -- that should never change.
- 4 And if that's -- that departure from
- 5 market rates had been significant in that first time
- 6 period, you're suggesting by your question, I think,
- 7 that there should -- that that should never be
- 8 undone.
- 9 From an economic perspective, that would
- 10 then be inconsistent with the 801(b) factors. And
- 11 what you really should be moving towards is to the
- 12 market rates. And those market rates are what I
- 13 calculated here in this matter.
- 14 Q. I'm only asking questions. I'm not
- 15 suggesting. There are times when the Judges do see
- 16 me suggest. I'm only asking questions.
- 17 But I'm puzzled because you seem to be
- 18 coming back to an assumption, which is that the
- 19 rates set in the SDARS II proceeding were a knowing
- 20 reduction below otherwise fair market value on
- 21 account of the financial condition or lesser ability
- 22 to pay on the part of Sirius XM. Is that your --
- 23 A. What I'm --
- Q. Is that your take away from SDARS II,
- 25 which you haven't read in a year?

- 1 A. What I said, and I'll repeat again, is
- 2 twofold. First of all, I'm looking at current
- 3 market rates. Current market rates suggest that the
- 4 percentage of revenue should be between 22.7 percent
- 5 and 28 percent or between \$2.43 per sub and 3
- 6 dollars a sub, if you look at current market rates
- 7 and make appropriate adjustments. That's point
- 8 number 1.
- 9 To the extent that that's different than
- 10 what was put in place in SDARS I and SDARS II,
- 11 disentangling all that has changed in the market is
- 12 not something that I have sought to do. What I have
- 13 sought to do is to look at the current market rates
- 14 and to ask the question of whether -- what is --
- 15 what are the current market rates?
- 16 There's another question of whether, once
- 17 you've determined the market rates, would those
- 18 market rates impose such a big harm to Sirius XM
- 19 that there may be a decision not to engage in that
- 20 because it would significantly disrupt their ability
- 21 to compete or significantly disrupt their ability to
- 22 be viable?
- 23 On that last issue, I defer to Professor
- 24 Lys, because he has done the more detailed analysis
- 25 of that issue.

- 1 Q. Are you a Whole Foods shopper?
- 2 A. Sometimes.
- Q. When you go to Whole Foods, do you
- 4 present your 1040 before they charge you for what
- 5 you buy?
- A. If I'm not mistaken, Whole Foods doesn't
- 7 have a statutory regulation with regard to how
- 8 rates -- that they set my prices.
- 9 Q. Let's move on to ratio equivalency. You
- 10 predicate your ratio equivalence argument on the
- 11 proposition that there is a "sufficiently high"
- 12 cross-elasticity of demand between Sirius XM and
- 13 interactive services to validate -- to validate its
- 14 application here; is that correct?
- 15 A. That there's significant competition,
- 16 yes, sir.
- 17 O. That was my next question. It means
- 18 there's significant competition between Sirius XM
- 19 and subscription interactive service, not just some
- 20 -- not just some degree of competition, correct?
- 21 A. That is correct.
- Q. Okay. Yet, you've made no study of the
- 23 alternative channels people would most likely turn
- 24 to if they stopped using Sirius XM to get music,
- 25 have you?

- 1 A. I -- as I said yesterday, I have not done
- 2 that detailed econometric analysis, quantitative
- 3 analysis. Professor Willig has done that -- done
- 4 that analysis, as well as, obviously, there are
- 5 various other sources that I cite here, including
- 6 Sirius's own comments with regard to the degree of
- 7 competition between interactive services and itself.
- 8 Q. Yeah. We'll come to those. And you
- 9 haven't done any empirical analysis of the
- 10 cross-elasticity of demand between Sirius XM and the
- 11 interactive services; is that also correct?
- 12 A. That is correct. As I say, Professor
- 13 Willig presents not necessarily cross-elasticities
- 14 but diversion to interactive services.
- 15 Q. Nevertheless, in your view, there's a
- 16 sufficiently high cross-elasticity of demand between
- 17 Sirius XM and subscription interactive services to
- 18 warrant the application of ratio equivalency,
- 19 correct?
- 20 A. What I would say is similar competitive
- 21 conditions, yes, sir.
- 22 Q. All right. And in support of that, you
- 23 make four points, which appear in paragraphs 39-A
- 24 through D of your written direct testimony appearing
- 25 at pages 15 through 16. Could you confirm that,

- 1 please?
- 2 A. I don't believe this is the full extent
- 3 of those discussions, but this is part of those
- 4 discussions, yes, sir.
- 5 Q. Okay. Well, let's go through each of
- 6 those, if we may. In paragraph 39-A, you simply
- 7 point out that most "streaming" now takes place on
- 8 mobile phones, correct?
- 9 A. That is correct.
- 10 Q. That, by itself, doesn't demonstrate that
- 11 there's significant competition between Sirius XM
- 12 and subscription interactive services, does it?
- 13 A. That in and of itself does not, but it's
- 14 consistent with the increased convergence that --
- 15 that has been observed in the market by market
- 16 players.
- 17 Q. And in paragraph 39-B, you point out that
- 18 some listening on subscription Internet --
- 19 interactive services is to playlists, correct?
- 20 A. I don't like your characterization --
- 21 characterization of "some."
- O. Please.
- 23 A. It's more significant than "some." And
- 24 so consistent with that, the concept of lean-back
- 25 functionality is becoming increasingly important for

- 1 the interactive services.
- Q. Okay. But that concept, by itself,
- 3 doesn't also demonstrate that there is significant
- 4 competition between Sirius XM and subscription
- 5 interactive services, does it?
- A. In and of itself, it does not, but it is
- 7 directionally -- it's consistent with the increased
- 8 convergence.
- 9 Q. And in paragraph 39-C, you assert that
- 10 there is a "growing use of streaming services,
- 11 including interactive streaming services in the
- 12 car." Correct?
- 13 A. Consistent with the increased
- 14 convergence, yes, sir.
- 15 Q. And as support for that claim, you cite
- 16 to three documents; is that correct?
- 17 A. That is correct.
- 18 Q. I'd like to walk through each of those,
- 19 if we may. And the first is Trial Exhibit 123,
- 20 which is the Ipsos In-Car Audio Study. And that is
- 21 in binder 1, I believe.
- 22 JUDGE BARNETT: This is marked as
- 23 restricted, Mr. Rich.
- MR. EBIN: Faster than me.
- 25 MR. RICH: I should note as to this

- 1 document, Your Honor, I'm advised that while it is
- 2 designated restricted, I believe the parties have
- 3 agreed that since you can readily find it on a web
- 4 site, it's inappropriately so designated.
- 5 JUDGE BARNETT: Okay.
- 6 MR. HANDZO: We agree.
- JUDGE BARNETT: Thank you.
- 8 BY MR. RICH:
- 9 Q. Is this the study from which you provide
- 10 testimony in your written direct testimony?
- 11 A. It appears to be that, yes, sir.
- 12 O. I believe the page that you reference is
- 13 titled Regular AM/FM Radio Still Dominates in-Car
- 14 Listening As the Top Platform Used?
- 15 A. That is correct.
- 16 O. Am I correct? And I believe that is the
- 17 first page as you flip over from the title page; is
- 18 that correct?
- 19 A. Yes, sir.
- 20 Q. Okay. And this slide reports the
- 21 percentage of survey respondents that claim they
- 22 currently use the various listed services in their
- 23 car?
- 24 A. That is correct.
- Q. Okay. So it doesn't give you a sense of

- 1 how much any of those listed services are used; is
- 2 that correct?
- A. This is a yes-or-no question. Yes, sir.
- 4 Q. Yeah. It's just whether they're used at
- 5 all, right?
- 6 A. That is correct.
- 7 Q. Okay. And the only interactive service
- 8 listed here is Spotify, correct?
- 9 A. Spotify is listed. Some other streaming
- 10 audio service is listed. And as you know, iHeart
- 11 and Pandora, which are both listed, now currently
- 12 are offering fully interactive services.
- 13 Q. Do you know whether the Pandora and
- 14 iHeart responses here were responses to the
- 15 interactive offerings which are brand new or they
- 16 would have been responses preceding that point in
- 17 time?
- 18 A. Of course, they would have been preceding
- 19 that point in time, but, obviously, if I have the
- 20 Pandora service on my phone or in my car, it -- it's
- 21 just now a decision about the value of the Pandora
- 22 service, whether I want to switch, which option I
- 23 want to choose.
- Q. And we're not asking you to testify here
- 25 as a consumer, sir. I'm asking you to talk about

- 1 what you sponsor here by way of your expert
- 2 testimony. On this chart, Spotify is listed as next
- 3 -- the next lowest response rate on this chart at
- 4 7 percent, correct?
- 5 A. That is correct. It's listed as
- 6 7 percent.
- 7 Q. So this slide -- and, by the way, in
- 8 reference to Spotify, this survey or at least the
- 9 depiction of the results doesn't distinguish between
- 10 Spotify's subscription service and its ad-supported
- 11 service, does it?
- 12 A. For all of the Services, it does not
- 13 distinguish between the ad-supported and the
- 14 subscription services.
- 15 Q. So this slide really doesn't tell us
- 16 anything about the extent to which consumers use
- 17 subscription interactive services in their cars,
- 18 does it?
- 19 A. That is correct. It provides information
- 20 about the use of streaming services in the car.
- Q. Right. The next slide, which is on the
- 22 facing page, similarly touts the prominence of AM/FM
- 23 radio in the car, correct? It's titled More
- 24 Consumers Would Choose to Have a Regular AM/FM Car
- 25 Radio Over Any Other Audio Option, correct?

- 1 A. That is correct. So on the left-hand
- 2 side there, that's a free option. The CD player,
- 3 since they've already purchased the CD, would not
- 4 have any incremental subscription fee.
- 5 The MP3 option would be using digital
- 6 downloads. Satellite radio would be a subscription
- 7 option. And then the streaming would either be an
- 8 ad-supported or a streaming service option at
- 9 34 percent.
- 10 Q. And turning to the next slide in this --
- 11 in this survey, the question asked gets at which
- 12 services consumers would want in their next car if
- 13 cost was not an issue, correct? If you look down at
- 14 the bottom, it says disregarding any associated
- 15 cost.
- 16 Do you see that?
- 17 A. Yes, sir.
- 18 Q. Okay. And streaming Internet radio/
- 19 streaming music service appears as the second to
- 20 lowest reported category on that list, correct?
- 21 A. I'm just confused. Could you --
- Q. 34 percent, correct?
- 23 A. Yeah, yeah. You said next slide. I'm
- 24 sorry.
- 25 O. I'm sorry.

- 1 A. I misinterpreted that.
- Q. Let me get you refocused. I apologize.
- 3 This is the slide that says more consumers would
- 4 choose to have a regular AM/FM?
- 5 A. Yeah, so this is what I just described,
- 6 that the -- the satellite radio and the streaming
- 7 options --
- 8 Q. Right.
- 9 A. -- are subscription-based services or
- 10 ad-supported.
- 11 Q. Correct. And so, again, for all we know,
- 12 that category could be dominated by ad-supported
- 13 streaming services and non-interactive streaming
- 14 services; we just don't know, correct?
- 15 A. This survey does not provide that level
- 16 of detail.
- 17 Q. Right. So this doesn't tell us anything
- 18 about whether consumers want to use subscription
- 19 Internet services or the degree to which they want
- 20 to use it in their cars, correct?
- 21 A. This, in and of itself, does not, no.
- 22 Q. Right. And it does make clear, however,
- 23 that AM/FM radio still dominates in the car, right?
- 24 A. That is correct.
- Q. Okay. The next document you use, if we

- 1 could turn to Trial Exhibit 117 in your binder,
- 2 please, is an Edison Infinite Dial study from 2016;
- 3 is that correct?
- 4 A. Is that in the same binder?
- 5 Q. It should be forward a few documents in
- 6 that binder, 117.
- 7 A. Okay. I've got it, thank you.
- 8 Q. And do you recognize that as the study
- 9 from which you drew certain conclusions?
- 10 A. Yes, I do.
- 11 Q. Okay.
- MR. RICH: And, Your Honors, once again,
- 13 same issue here, although listed restricted, we've
- 14 agreed that this can be admitted on a public record.
- 15 It is a publicly available document.
- JUDGE BARNETT: Thank you.
- 17 MR. HANDZO: Agreed.
- 18 BY MR. RICH:
- 19 Q. Now, with respect to this survey, are you
- 20 aware that this same Edison is the entity with which
- 21 one of Sirius XM's upcoming trial witnesses is
- 22 associated, Mr. Lenski?
- 23 A. Sitting here today, I did not know that.
- Q. Okay. I take it you view Edison as a
- 25 credible source for this kind of survey information?

- 1 A. Yes, sir.
- Q. Okay. The slide from this presentation
- 3 that you point to is the one bearing a Bates stamp
- 4 SoundExchange 000034493, if you could work your way
- 5 to that, please. It's at page 16. I don't know
- 6 where the page number is, frankly -- no, sorry, that
- 7 was to your written direct testimony. I beg your
- 8 pardon. That's the only reference is to the Bates.
- 9 It's the one that says on-line radio listening in
- 10 car.
- 11 A. Yes, sir.
- 12 Q. Okay. That shows an increasing number of
- 13 people have ever listened to Internet radio in a car
- 14 by listening to the stream from a cell phone that
- 15 they have connected to a car audio system, correct?
- 16 A. Yes, sir.
- 17 O. This slide addresses use of Internet
- 18 radio, correct?
- 19 A. That is correct.
- Q. It doesn't speak specifically to
- 21 subscription interactive services, right?
- 22 A. That would be a part of Internet radio,
- 23 that is correct.
- Q. And the final document you cite is a 2015
- 25 MusicWatch study that was prepared by the RIAA.

- 1 That appears at tab -- Trial Exhibit 122.
- 2 MR. RICH: And, Your Honors, while this
- 3 is a restricted document, I propose we don't put
- 4 anything about it up on any public screen, and I
- 5 will not elicit any data in it. I believe the level
- 6 of examination shouldn't be one that would intrude
- 7 on that. If my colleague across from me feels
- 8 differently, we can --we can clear the courtroom
- 9 but, it's a very brief examination.
- 10 BY MR. RICH:
- 11 Q. Do you recognize this document?
- 12 A. Yes, sir.
- MR. RICH: We would withdraw an earlier
- 14 objection, since this was part of my examination,
- 15 and offer this document into evidence.
- 16 MR. HANDZO: Since we apparently offered
- 17 it too, I have no objection.
- 18 JUDGE BARNETT: Exhibit 122 is admitted.
- 19 (SoundExchange Exhibit Number 122 was
- 20 marked and received into evidence.)
- 21 BY MR. RICH:
- Q. Now, the slide you deal with in this
- 23 document is Bates numbered 00033362, if you could
- 24 turn to that, please.
- 25 A. Yes, sir.

## CONFIDENTIAL SESSION 1210:4-5

- 1 O. That slide claims that streaming is
- 2 rapidly growing as a percent of music time spent
- 3 listening in the car, correct?
- 4 [CONFIDENTIAL SESSION]

- 6 Q. And, again, the --
- 7 A. Sorry. I apologize for the numbers.
- 8 Q. Sorry. And this, again, is all about
- 9 streaming, correct?
- 10 A. Yes, sir.
- 11 Q. It says nothing specifically about the
- 12 use of subscription interactive services in the car,
- 13 does it?
- 14 A. That is correct.
- 15 Q. Now, you claim in your written direct
- 16 testimony in paragraph 39-C, that this slide
- 17 supports the assertion that time spent listening to
- 18 streaming has exceeded the time spent listening to
- 19 satellite radio. Is that a correct characterization
- 20 of your testimony?
- 21 A. Yes, sir.
- Q. Let's take a closer look at what the
- 23 slide actually says. Do you see under the
- 24 subheading share of listening in the car, trended,
- 25 that there's a caveat that notes that these data are

- 1 limited to "streamers"?
- JUDGE STRICKLER: Which document are you
- 3 looking at?
- 4 MR. RICH: So this, Your Honor, is --
- 5 JUDGE BARNETT: It's slide 72.
- 6 MR. RICH: This is Exhibit 122 at page
- 7 33362.
- 8 JUDGE STRICKLER: Right. I thought you
- 9 were reading some sort of a legend or disclaimer.
- MR. RICH: Sorry. The --
- JUDGE FEDER: It's highlighted --
- 12 BY MR. RICH:
- 13 Q. The share of listening in the car,
- 14 trended, and then beneath it, it says "among
- 15 streamers." Are you there? Do you see that?
- 16 A. Yes. So among those people who are using
- 17 some form of streaming, they -- they're turning to
- 18 streaming more than they turned to a satellite
- 19 option.
- 20 Q. Correct. So that's -- we're not talking
- 21 about a broader population, only a population of
- 22 streamers, correct?
- 23 A. In this calculation, yes.
- Q. Yes. So -- so you don't note that caveat
- 25 in your testimony, do you?

- 1 A. I did not have that caveat. That is
- 2 correct.
- Q. Now, we can put this binder away. If you
- 4 look at your written rebuttal testimony at page 24,
- 5 paragraph 53, you there contend that a given
- 6 performance on Sirius XM "may" have greater value
- 7 than a performance of music delivered by an Internet
- 8 -- interactive service, pardon me. Do you see that?
- 9 A. I don't -- the idea, I obviously recall
- 10 the precise sentence. Where in the paragraph is it?
- 11 Q. If you look at the last sentence of
- 12 paragraph 53, "thus each individual performance may
- 13 be relatively less valuable to the subscriber
- 14 compared to Sirius XM plays"?
- 15 A. Yes, this was a topic that came up
- 16 yesterday when I was here.
- Q. Yes. And there are a lot of arguably's,
- 18 maybe's, et cetera's sprinkled throughout this,
- 19 correct?
- 20 A. I have not done the detailed analysis to
- 21 form a firm conclusion on this issue, but I discuss
- 22 the various interests and factors in this paragraph.
- Q. And at least at your deposition, if I
- 24 may, it seemed that you're -- you were at least
- 25 somewhat influenced by your own activity as a

- 1 consumer; is that fair?
- 2 A. I gave an example for that moment. I
- 3 think we -- in response to a question from Judge
- 4 Strickler yesterday, we talked about how in the car
- 5 there's -- you're more captive. All consumers are
- 6 more captive.
- 7 And so the choice set that one has for
- 8 entertainment is more limited in the car, consistent
- 9 with what I wrote here.
- 10 Q. But as you've indicated, for our purposes
- 11 you've done no empirical examination of this issue,
- 12 correct?
- 13 A. I have not done -- tested that question
- 14 empirically. That is correct.
- 15 Q. Okay, thank you.
- 16 And you acknowledge that the rates to be
- 17 set in this proceeding, as we discussed, have to
- 18 reflect the workings of effective competition in the
- 19 target market, which is satellite radio, tempered by
- 20 whatever 801(b)(1) adjustments the Judges may
- 21 determine are appropriate, correct? I think we've
- 22 established that?
- 23 A. The idea is to determine rates based in
- 24 an effectively competitive market, considering the
- 25 factors, yes, sir.

- Q. Right. And for your part, you believe no
- 2 801(b) adjustment -- adjustments are warranted on
- 3 the record as you see it, correct?
- A. No additional adjustments beyond the ones
- 5 -- adjustments that I make to the market rates
- 6 between the benchmark and the target markets are
- 7 warranted. That is correct.
- 8 O. Now, it's also the case, though, is it
- 9 not, that you, in proposing adoption of the
- 10 prevailing rates in the interactive service market,
- 11 it matters not to you whether, in fact, it is shown
- 12 that that market reflects the forces of competition?
- 13 A. No, what I'd say is that if that market
- 14 reflects the -- that it is increasingly effectively
- 15 competitive, then the adjustment between the
- 16 benchmark and the target market would be either zero
- 17 or less significant than the adjustment that would
- 18 be necessary if that market is not characterized by
- 19 the kinds of factors that are consistent with
- 20 effective competition.
- Q. Well, let me just phrase it a little
- 22 differently. I don't think we're disagreeing. I
- 23 believe you would use this benchmark, irrespective
- 24 of what the Judges conclude as to the degree of
- 25 effective competition in that market, subject only

- 1 to whether and, if so, how large a steering
- 2 adjustment would be applied, correct?
- 3 A. It is my view that one could use this
- 4 benchmark with adjustments to take into account that
- 5 factor, so the answer to your question is yes.
- 6 Q. Yes. And so whereas in your written
- 7 direct testimony you suggest a modest steering
- 8 adjustment from those rates ought to suffice to
- 9 offset any supra competitive rate levels -- that's
- 10 at paragraphs 41 and 42 -- you've not made any
- 11 study, have you, of the extent to which monopoly
- 12 pricing in that market has driven prices above
- 13 competitive levels?
- 14 A. I have not done a -- and I'm not sure how
- 15 one would do that type of -- the study that you're
- 16 hypothesizing right now.
- 17 Q. And in that regard, the steering
- 18 adjustment you there propose, meaning in your
- 19 written direct testimony, is based on the discount
- 20 Sirius XM secured from its directly licensed labels
- 21 as compared to the payments it otherwise would make
- 22 under the statutory rate; is that correct?
- A. Well, that's one. And as you know, in my
- 24 written rebuttal, I include alternatives as well.
- Q. Stay with the direct for the moment.

- 1 We'll get there.
- 2 A. Right. As I said -- and I believe the
- 3 precise words were something to the effect of I'm
- 4 still studying this issue in my written direct
- 5 testimony, and I included an adjustment of up to
- 6 14 percent to take into account the potential
- 7 differences between the rates that could occur in a
- 8 market that would be effectively competitive with
- 9 one that -- ones that are not.
- 10 Q. But am I correct that in coming up with
- 11 that 14 percent, the measuring stick of it was your
- 12 determination or perhaps Professor Lys's or someone
- 13 else's determination of the maximum price benefits
- 14 Sirius XM received through its direct licenses from
- 15 the statutory license fee Sirius XM otherwise would
- 16 be paying?
- 17 A. Comparing the relative price -- if you
- 18 assume the entire discount was due to steering --
- 19 Q. Right.
- 20 A. -- then that discount would be -- would
- 21 reflect the difference between the competition or
- 22 the price that would prevail in the presence of
- 23 steering and the price that would not.
- Q. Right. And so that steering adjustment
- 25 and that method of calculation has nothing to do

- 1 with an attempted adjustment from the rates paid in
- 2 the interactive services market to get to a
- 3 competitive rate, correct?
- A. In my written direct testimony, and as
- 5 you know in my written rebuttal, I include
- 6 alternatives. And I've talked about those
- 7 alternatives in my testimony over the last day or
- 8 so.
- 9 Q. Now we're getting to that right now. So
- 10 in your written rebuttal testimony, and indeed in
- 11 slide 28, if we want to call it up, you propose
- 12 eliminating a steering adjustment altogether, don't
- 13 you?
- 14 A. Well, I start with the perspective, and I
- 15 think I've said this multiple times, so I don't want
- 16 to repeat myself, that there is not direct empirical
- 17 evidence in this case to warrant a -- an estimate,
- 18 but given the concerns and given that it does take
- 19 time for the market to change and given the options,
- 20 there is a range of a reasonable adjustment to --
- 21 that one could put forward, and I've talked about it
- 22 in the zero to 12, zero to 13 percent range.
- 23 Q. But the reasoning that undergirds your
- 24 view that no steering adjustment is warranted, what
- 25 you call the lack of an empirical basis, is that the

- 1 only appropriate time for such an adjustment to be
- 2 made or circumstance for it to be made is where it
- 3 is shown that the relative ability of the respective
- 4 services in the benchmark and target markets to
- 5 steer differ, correct? It's all about relativity to
- 6 you, right?
- 7 A. Relativity -- relativity is a key factor
- 8 in that discussion. So if the benchmark market is
- 9 effectively competitive and the target market is
- 10 similarly effectively competitive, then no
- 11 adjustment would be required in that circumstance.
- 12 Q. And, conversely, under your reasoning, if
- 13 neither market is effectively competitive, you would
- 14 likewise conclude no steering adjustment is
- 15 warranted, correct?
- 16 A. That -- now you enter -- you -- you go
- 17 from what would be a pure economic perspective of
- 18 using a benchmark and a target to now introducing
- 19 what would also involve the 801(b) factors. And in
- 20 such a circumstance, given that effective
- 21 competition is part of those factors, I think is a
- 22 fair reading of that framework, in that
- 23 circumstance, if both were not effectively
- 24 competitive, it would be consistent with those
- 25 factors to make an adjustment to effective

- 1 competition.
- JUDGE STRICKLER: Are you saying that
- 3 adjustment for effective competition in that
- 4 situation would be done through the factors, rather
- 5 than in the ascertainment of the rate to be subject
- 6 to the factors?
- 7 THE WITNESS: From an economic
- 8 perspective, it's a distinction without a difference
- 9 because where you -- if you do it before or after in
- 10 some sense, it's not, in the end, that big of a
- 11 deal. What I would say is that the willing
- 12 buyer/willing seller framework should take into
- 13 account or will optimize those factors when in the
- 14 presence of effective competition.
- 15 And so if one is trying to use market
- 16 rates to meet those factors, one needs to ensure
- 17 that it has effective competition.
- 18 JUDGE STRICKLER: Assuming that the
- 19 benchmark and the target don't reveal effective
- 20 competition because there's no steering in either
- 21 one, which of the four factors would be applicable,
- 22 in your opinion, to -- to the -- to adjust the
- 23 rates, to present effective competition?
- 24 THE WITNESS: The way I -- I mean, these
- 25 factors overlap, obviously, because of the nature of

- 1 how they're described, but I would put it into the
- 2 second factor.
- JUDGE STRICKLER: Fair return, fair
- 4 income?
- 5 THE WITNESS: Precisely.
- JUDGE STRICKLER: Thank you.
- 7 MR. RICH: Do you have anything further,
- 8 Judge?
- 9 JUDGE STRICKLER: No, thank you. I'm
- 10 sorry.
- 11 BY MR. RICH:
- 12 Q. Turn to slide 34 of your deck, please.
- I take it from your testimony yesterday
- 14 that this slide summarizes your views as to why it
- 15 is more appropriate to use effective rates from the
- 16 interactive service agreements than what you term
- 17 contract per-play rates; is that right?
- 18 A. That is correct.
- 19 Q. Now, in the first bullet there, you note
- 20 that there is "no economic rationale for using rates
- 21 that fail to reflect the underlying economics of a
- 22 transaction." Did I quote that correctly?
- 23 A. That is correct.
- Q. I assume that proposition was as true two
- 25 years ago as it is today?

- 1 A. It's a general economic perspective. I
- 2 would -- I would add a caveat in the sense that no
- 3 economic rationale for using rates that fail to
- 4 reflect the underlying economics of a transaction,
- 5 if one has those underlying economics of the
- 6 transaction.
- 7 So you can imagine a situation -- and
- 8 just for clarity, I wanted to provide this caveat --
- 9 where a contract has been entered into, let's say,
- 10 but because of the newness of it, you don't have
- 11 actually good information about the effective --
- 12 what are the governing effective rates.
- In that limited circumstance, I think
- 14 turning to what's in the contract would be a
- 15 legitimate and appropriate way to go because in that
- 16 case, you would not have effective rates to turn to.
- 17 But when one does have effective rates, there's no
- 18 sound economic rationale for avoiding those.
- 19 Q. And you understand that the Judges in the
- 20 Web IV determination modeled with respect to
- 21 subscription non-interactive services from contract
- 22 per-play rates, correct?
- A. As I think I've said multiple times, I
- 24 was not exposed to the entire record. If I read the
- 25 decision as I cite in the fourth bullet to various

- 1 points, there is a use of the effective rates in
- 2 discussions of effective rates, and there's nothing
- 3 that I read in the decision suggesting that contract
- 4 rates were the appropriate way to go.
- And so, quite to the contrary, if you
- 6 read the decision, there are places where it's
- 7 illuminated that the Judges were looking to the
- 8 effective rates, but I'm -- I defer to people who
- 9 are far more knowledgeable about their intent than
- 10 -- than my reading of it because I'm just reading it
- 11 -- who is somebody not exposed to the entire record.
- 12 Q. Assuming it were the case that the Judges
- 13 drew from the contract per-play rates rather than
- 14 the effective per-play rates, is it your view that
- 15 the methodology they would have used would have been
- 16 unsupported by any economic rationale?
- 17 A. Well, again, with the caveat I'm not sure
- 18 what was available as the options and the rationale
- 19 behind it, so to the extent that there was a sound
- 20 economic rationale, there wasn't data available, for
- 21 example.
- 22 And, obviously, the issues in Web IV are
- 23 slightly different than here, because you had both
- 24 an ad-supported market and a subscription market at
- 25 issue. And here you just have a subscription

- 1 market.
- 2 O. Do you have a -- any understanding
- 3 whether the Judges actually considered those markets
- 4 and appropriate rates at separate points in their
- 5 decision-making?
- A. Again, I'm just reading it. They come to
- 7 different rates. And there's extensive
- 8 discussion -- I have a short discussion of it in my
- 9 testimony -- about the difference between those who
- 10 didn't have a positive willingness to pay and those
- 11 who did and how these -- the rates that should
- 12 govern in those two circumstances should differ.
- And so they do, I think it's fair to say,
- 14 differentiate between the ad-supported and the
- 15 subscription-based markets.
- 16 Q. In your third bullet on slide 34, you
- 17 note that "current marketplace evidence demonstrates
- 18 that per-play rates are not binding for interactive
- 19 subscription services and, thus, should not be used
- 20 to calculate a rate for Sirius XM."
- 21 Do you see that?
- 22 A. Yes, sir.
- O. Wasn't that also the case at the time of
- 24 Web IV, namely that the marketplace evidence
- 25 demonstrated that per-play rates were not binding

for interactive subscription services? That's not an analysis that I've 2 conducted, so I don't have -- I can't give you an answer to that. MR. RICH: Your Honors, I don't know when 5 you want to break. This would be a convenient moment if you'd like. We're moving to a different section. 9 JUDGE BARNETT: That's a good breaking point, then. 10 MR. RICH: I'm assuming I'll be about 11 12 another half an hour, perhaps. JUDGE BARNETT: Thank you. We'll be at 13 recess for one hour. 14 15 (Whereupon, at 12:04 p.m., a lunch recess 16 was taken.) 17 18 19 20 21 22 23 2.4 25

- 1 AFTERNOON SESSION
- 2 (1:11 p.m.)
- JUDGE BARNETT: Good afternoon. Please
- 4 be seated.
- 5 MR. HANDZO: If I may, I have a schedule
- 6 update since I raised it yesterday. I believe we
- 7 will have Dr. Ford following tomorrow after
- 8 Professor Lys, assuming we get that far, so I wanted
- 9 to alert the Court to that.
- 10 JUDGE BARNETT: Thank you. I also
- 11 noticed in our e-mail feed that there was an
- 12 unopposed motion to amend the Wazzan testimony,
- 13 direct and rebuttal; correct?
- 14 MR. HANDZO: That sounds right to me. I
- 15 think there were just a couple of typos that just
- 16 needed to be cleaned up. Nothing substantive about
- 17 it.
- 18 JUDGE BARNETT: Well, as it was
- 19 unopposed, I think that we can sign that order, so
- 20 you can assume it is granted.
- 21 MR. FAKLER: As long as -- since we're on
- 22 the record, it was far more than a couple of typos,
- 23 but it is unopposed.
- JUDGE BARNETT: Thank you, Mr. Fakler.
- 25 Mr. Rich?

- 1 MR. RICH: Thank you.
- 2 BY MR. RICH:
- 3 Q. Afternoon.
- 4 A. Good afternoon to you.
- 5 Q. In proposing as your benchmark for
- 6 ratemaking here the prevailing rates in the upstream
- 7 market in which the major record labels license
- 8 interactive subscription services, you do so aware
- 9 not only that SoundExchange and prior economists
- 10 appearing on its behalf have used the same benchmark
- 11 in the Web IV proceeding, but also in the SDARS I
- 12 and II proceeding, true?
- 13 A. As a general matter, yes. Precisely what
- 14 was done, I'm not intimately familiar with.
- 15 Q. Yeah. And so while you opined that that
- 16 benchmark provided what you term in your written
- 17 rebuttal testimony at page 3 "a sound and reasonable
- 18 basis, "for ratemaking in such past proceedings,
- 19 you, in fact, recall little of the specifics of the
- 20 SDARS II decision; is that accurate?
- 21 A. The precise nature of it, although I'm
- 22 aware that Professor Ordover had used such a method
- 23 in SDARS II and Professor Rubinfeld used as a
- 24 benchmark the interactive services market in Web IV.
- 25 But how they implemented it, I do not recall.

- 1 At one point I looked at their testimony,
- 2 to the extent that I was able to, but I did not keep
- 3 track of the differences or the similarities beyond
- 4 the fact that they just used it as a benchmark.
- 5 Q. You are anticipating my outline nicely
- 6 here. So in addition to --
- 7 A. I have learned from some questions
- 8 earlier.
- 9 Q. In addition to what you have just
- 10 testified as to the recall as to Professor Ordover's
- 11 work, you also have testified on deposition -- and
- 12 tell me if that's still your view -- that you don't
- 13 have a strong recollection as to how the Judges in
- 14 SDARS II analyzed the interactive benchmark?
- 15 A. I refreshed my recollection somewhat on
- 16 that -- on that question since we saw each other at
- 17 my last deposition and focused in on two of their
- 18 critiques of that benchmark.
- 19 O. Which appear on your -- one of your
- 20 slides; is that right?
- 21 A. That is correct.
- Q. Okay. We will get to there.
- Now, while you were formulating your
- 24 written direct testimony, I take it, you did have
- 25 some discussions with Professor Ordover and at some

- 1 point reviewed his prior testimony; is that correct?
- 2 A. I wouldn't agree with that. I had a
- 3 discussion with Professor Ordover when I had first
- 4 received the call from counsel from SoundExchange.
- 5 By the time I got around to preparing my written
- 6 direct testimony, I was not -- I had a conversation
- 7 right at the beginning, but it was many months later
- 8 when I started writing my written direct testimony.
- 9 Q. Now, the fact is you and he shared a
- 10 colleague at your consulting firm in preparing your
- 11 respective testimonies; his in satellite II and
- 12 yours here, correct?
- 13 A. One staff member, yes, that is correct.
- Q. Whose name is Doug Fontaine?
- 15 A. That is correct.
- 16 Q. And he is not just a staff member, I take
- 17 it he is a reasonably senior staff member, correct?
- 18 A. That is correct.
- 19 O. Now --
- JUDGE STRICKLER: Before you go on,
- 21 counsel had pointed you to page 3 of your written
- 22 direct testimony. I am taking a look at paragraph
- 23 9. Do you see that?
- 24 THE WITNESS: Yes, sir.
- 25 JUDGE STRICKLER: In the middle of the

- 1 paragraph you write, "I conclude that interactive
- 2 subscription services represent the most reasonable
- 3 and appropriate benchmark, " and I will leave off the
- 4 rest of the sentence there.
- 5 Did you go through other -- before you
- 6 saw whatever it was that the Sirius XM was proposing
- 7 or anything else that any of the other experts were
- 8 going to do in this case, did you go through other
- 9 potential benchmarks and disqualify them as inferior
- 10 to the interactive benchmark?
- 11 THE WITNESS: Yes, sir, I did.
- JUDGE STRICKLER: Which ones did you go
- 13 through?
- 14 THE WITNESS: So I started broadly, and
- 15 asked, you know, could you -- could you look to is
- 16 there any information in digital downloads, is there
- 17 anything that we can observe in, say, the video
- 18 world? Is there something I can glean in -- to the
- 19 extent that there is any information in the -- what
- 20 we will call the mid-tier segment, and so I
- 21 considered option -- other options. And there may
- 22 have been a couple of others that I had considered.
- 23 Whether there was information and asked
- 24 questions, and then zeroed in on the interactive
- 25 services benchmark because for the precise reason,

- 1 it is the most reasonable and appropriate to turn
- 2 to, making the necessary adjustments, as I believe I
- 3 have proposed.
- 4 JUDGE STRICKLER: So you -- so,
- 5 therefore, you describe it as I just read, as "the
- 6 most reasonable and appropriate benchmark."
- 7 THE WITNESS: That is correct.
- JUDGE STRICKLER: Okay. Was it better
- 9 than the bad benchmarks? Did you find it a good
- 10 benchmark or just to paraphrase from the movie
- 11 "Argo," was it the best bad plan you had?
- 12 THE WITNESS: Or the Winston Churchill
- 13 quote about democracy.
- 14 JUDGE STRICKLER: Something like that.
- 15 THE WITNESS: No, I think it is a good
- 16 benchmark. What you are looking for in a benchmark,
- 17 if you are looking in intellectual property cases or
- 18 in valuation matters is something that is comparable
- 19 to the target that you're trying to value, and then
- 20 you want a benchmark where you can make adjustments
- 21 to account for any differences.
- 22 And this benchmark meets all those
- 23 conditions.
- JUDGE STRICKLER: So it was a good
- 25 benchmark --

- 1 THE WITNESS: It is a good benchmark.
- JUDGE STRICKLER: -- subject to the
- 3 adjustments you made.
- 4 THE WITNESS: In absolute terms. And it
- 5 is the most reasonable and appropriate in relative
- 6 terms as well.
- 7 JUDGE STRICKLER: Thank you.
- 8 BY MR. RICH:
- 9 Q. Now, you maintain that you are unaware of
- 10 the degree of similarity between the two approaches
- 11 to rate setting you propose here and those proposed
- 12 by Professor Ordover in SDARS II; is that correct?
- 13 A. That is correct.
- 14 Q. So much so that even after being
- 15 questioned at your first day of deposition in
- 16 January of this year about that, you failed to go
- 17 back either to the SDARS II decision or to Dr.
- 18 Ordover's testimony to ascertain the degree to which
- 19 that's the case, correct?
- 20 A. That's correct. I didn't think it was
- 21 relevant for my analysis.
- Q. And in your Approach 1, you simply take
- 23 the effective percentage-of-revenue rate paid by the
- 24 subscription interactive services and cut it in
- 25 half, right? If you want we can reference your

- 1 slide 22 from yesterday.
- 2 A. That's -- you have oversimplified it but
- 3 the 50 percent is based on an estimate of my
- 4 analysis of the music share of the overall value of
- 5 Sirius XM revenue.
- And as I noted yesterday, there is
- 7 current information from Mr. Boedeker's survey that
- 8 would suggest that that is a conservative
- 9 assumption. It could be even higher than that.
- 10 Q. Just -- just take a look, and I will
- 11 invite the Judges to take a look at slide 22 in your
- 12 deck from yesterday, just to confirm that that's the
- 13 math that generates the result under your Approach
- 14 1?
- 15 A. That is correct.
- 16 Q. Namely, taking the
- 17 benchmark percent-of-revenue rate which is set forth
- 18 there, and adjusting it for non-music content,
- 19 simply multiplying the two and coming up with what
- 20 here is 28 percent; is that correct?
- 21 A. Prior to any adjustments at which the
- 22 slides beyond that go into, yes.
- Q. Yes. Now, in your first binder -- wrong.
- In your second binder, binder number 2
- 25 there is the SDARS II decision behind the tab. And

- 1 if you would find that. If you could turn, please,
- 2 at the top corners is pagination, and the page I
- 3 want you to turn to is 20362.
- 4 And if you will direct your attention to
- 5 the bottom right-hand column, continuing over on to
- 6 the next page, it reads, "examining the agreements,
- 7 he" -- meaning Professor Ordover -- "determined that
- 8 the annual payments as a percentage of gross
- 9 subscription revenues of the services ranged from 50
- 10 to 70 percent, and tended to cluster in a range of
- 11 60 to 65 percent.
- 12 "Dr. Ordover then attempted to account
- 13 for the fact that the Sirius XM satellite radio
- 14 service, unlike interactive subscription services,
- 15 transmits both music and non-music content by
- 16 reducing the percentage-of-revenue rate from the
- 17 interactive subscription agreements in half."
- 18 Do you see that?
- 19 A. Yes, sir.
- 20 Q. That's exactly what you do here in your
- 21 Approach 1; is that correct?
- 22 A. That is correct, but it wouldn't surprise
- 23 me if, as you described earlier in the question,
- 24 there hadn't been a significant change in the
- 25 relative contributions of music and non-music

- 1 content to the Sirius XM service, and so it looks
- 2 like he used half.
- I do use half, although I know that
- 4 that's conservative. I don't know what Professor
- 5 Ordover has done.
- Q. Forgetting for a moment the numbers that
- 7 are plugged in, the methodology and the math
- 8 process, the steps to get there are identical,
- 9 correct?
- 10 A. With regard to this issue, obviously I'm
- 11 using 56 percent; he is using 60 to 65 percent. So
- 12 the math is different, but he does use half. I have
- 13 no idea what other adjustments he makes beyond that
- 14 with which is right here.
- 15 Q. But if Professor Ordover were sitting
- 16 here, he might well have reproduced your slide 22
- 17 and just plugged in the appropriate numbers saying
- 18 this was his, what he termed primary approach to
- 19 ratemaking, correct, so it appears to you?
- 20 A. I have no idea what he did in terms of
- 21 whether he stopped there or he considered any of the
- 22 other eight or ten adjustments that I considered and
- 23 made some and did not make others.
- Q. And as you point out, he used slightly
- 25 higher percentages so that his rates came out

- 1 between 30 -- I will represent to you -- between 30
- 2 and 32 and a half percent, where as yours come out
- 3 under Approach 1 at 28 percent.
- 4 And I was about to suggest that wouldn't
- 5 that be explained by basically the fact that the
- 6 effective percentage-of-revenue rate paid by
- 7 interactive services has declined slightly between
- 8 SDARS II and today? Would you agree with that?
- 9 A. With the caveat that I'm not sure
- 10 precisely how Professor Ordover calculated his 60 to
- 11 65 percent, but if he did it very similarly, it
- 12 would suggest they declined from somewhere in the 60
- 13 to 65 percent range, to 56 percent.
- Q. Now, separate and apart from the degree
- 15 of familiarity you have with Professor Ordover's
- 16 methodology, you were aware at the time you prepared
- 17 your written direct testimony that the Judges in
- 18 evaluating Professor Ordover's primary approach did
- 19 "not find that the market for interactive
- 20 subscription services as characterized by Dr.
- 21 Ordover in this proceeding offers a foundation to
- 22 support a comparable benchmark from which to begin
- 23 an analysis of reasonable rates for SDARS for the
- 24 coming -- for the upcoming license period."
- 25 You do recall reading that prior to

- 1 preparing your testimony, correct?
- 2 A. Or some language like that, yes, sir.
- Q. You also were aware, were you not, that
- 4 the Judges concluded in SDARS II that "the rights
- 5 licensed by interactive subscription services are
- 6 not the same as those by non-interactive services
- 7 such as the SDARS and the Judges did not find Dr.
- 8 Ordover's efforts to adjust for the differences to
- 9 be helpful." Do you remember reading that as well?
- 10 A. Language to that effect, the precise
- 11 language I did not commit to memory, but that
- 12 general theme, yes.
- Q. And I take it that you were also aware
- 14 that the Judges in SDARS II concluded that Professor
- 15 Ordover's primary approach yielded rates that are
- 16 "so much higher than the current statutory rate that
- 17 they are outside the zone of reasonableness"?
- 18 A. I remember that language, yes, sir.
- 19 Q. And none of those -- none of those
- 20 cautions deterred you from pursuing the identical
- 21 modeling here, correct?
- 22 A. I can't agree that it is identical
- 23 modeling because I'm not aware of, and any
- 24 discussion in the SDARS II decision, for example,
- 25 Professor Ordover considering the issues, such as

- 1 the Indie versus Major issue that I talked about
- 2 earlier, considering a steering adjustment,
- 3 considering the other factors that I have described,
- 4 on the one hand, and then the other hand is
- 5 obviously the interactive market was in a different
- 6 state in the time frame at the time that SDARS II
- 7 was decided or Professor Ordover was presenting his
- 8 analysis, such that as I think I described earlier,
- 9 we know that Apple, which is a very big player, and
- 10 Spotify had either -- for Apple, entered the market
- 11 in 2015 and for Spotify it either entered the market
- 12 sometime in I think late '10 or early '11, and
- 13 whether that information was available to Professor
- 14 Ordover, I don't know the precise date of his work.
- 15 Q. So if you turn to your slides 37, which
- 16 you discussed yesterday, which is labeled Sirius XM
- 17 critique, interactive benchmark rejected in SDARS
- 18 II, you then have a series of what are labeled
- 19 responses, correct?
- 20 A. That is correct.
- Q. Now, I don't see anywhere in these
- 22 responses, though, any reflection of any of the
- 23 analysis engaged in by the Court that I read to you
- 24 and that you indicated you were aware of. That's
- 25 not on this sheet, is it, anywhere?

- 1 A. Well, they are consistent. I mean, I'm
- 2 trying to summarize obviously in a short slide a
- 3 relatively lengthy decision, but one of the -- I'm
- 4 saying they rejected the interactive market in part
- 5 as a benchmark and in part or in full because of the
- 6 current state of that market at that time that
- 7 Professor Ordover presented it, although I should
- 8 note just for the record, as I noted on the slide,
- 9 that it had been utilized in SDARS I and was
- 10 utilized in Web IV.
- 11 Q. But, for example, there is nothing on
- 12 slide 37 that reflects the fact that the Judges
- 13 found the rates so much higher than the then
- 14 existing current statutory rate as to fall outside
- 15 the zone of reasonableness? You don't address that
- 16 on this slide, correct?
- 17 A. That is correct, but obviously that is
- 18 dependent upon the underlying analysis, which was
- 19 predicated on the benchmark not being a sound
- 20 benchmark and that there was not a comparison to the
- 21 Indies.
- 22 Q. In your Approach 2, you take the
- 23 effective per-subscriber payment paid by
- 24 subscription interactive services to the major
- 25 labels as your starting point; is that correct?

- 1 And, again, we can reference for the Judges' benefit
- 2 here your slide 26.
- 3 A. Yes, sir.
- 4 O. And you then adjust that by the ratio of
- 5 the retail price of what you describe as
- 6 subscription non-interactive services by the retail
- 7 price for subscription interactive services,
- 8 correct?
- 9 A. That is correct.
- 10 Q. And as you discussed yesterday, the
- 11 non-interactive services that you used for these
- 12 purposes are Pandora One, Rhapsody unRadio, and
- 13 Slacker Radio? That's on your slide 25?
- 14 A. That is correct.
- 15 Q. Now, all three of these products offer
- 16 greater customization than does Sirius XM; is that
- 17 true?
- 18 A. At that time there would be a slight
- 19 difference in the sense of there was hourly and
- 20 daily limits, for example, on Pandora One. And
- 21 Pandora One, given I am doing a weighted average, is
- 22 the one we should focus on.
- 23 And my understanding is that they -- that
- 24 someone subscribing to Pandora One would have the
- 25 ability to skip -- not rewind, but just skip -- a

- 1 limited number of times per hour and per day.
- Q. It is also the case, though, with respect
- 3 to Rhapsody unRadio and Slacker, they offered
- 4 functionality that goes beyond that allowed under
- 5 the 114 license, correct?
- 6 A. That is correct. But in terms of the
- 7 contribution to the analysis given that Pandora is
- 8 almost 90 percent of the share, there consumer price
- 9 is driving in essence this analysis.
- 10 Q. But for purposes of the analysis you
- 11 undertook here in your Approach 2, you didn't
- 12 attempt to make any adjustment to the retail price
- 13 comparators to account for the fact of this
- 14 differing functionality, correct?
- 15 A. That is correct. I did not make an
- 16 additional adjustment for the ability for a consumer
- 17 to skip that's available on, say, Pandora One, but
- 18 is not available on Sirius XM. I talked earlier
- 19 today in response to a question from you about how
- 20 one could further adjust this interactivity
- 21 adjustment to take into account the changes that
- 22 have occurred in the new deal.
- 23 And it would lower this percentage from
- 24 .49 to something slightly below .49.
- Q. So turning back to your approach and back

- 1 to slide 26, you take the ratio of these two sets of
- 2 retail prices, which you have identified as .49, and
- 3 multiply that by the effective per-subscriber
- 4 royalty paid by subscription interactive services to
- 5 the major labels, correct?
- 6 A. Yes.
- 7 Q. And this approach, I think as Mr. Handzo
- 8 also indicated yesterday, is mathematically
- 9 equivalent to taking the 56 percent of revenue used
- 10 in your Approach 1 and multiplying it by the average
- 11 retail price of the Services that you characterize
- 12 as non-interactive, correct?
- 13 A. It will be -- the ARPU or the weighted
- 14 average, it should work out to the same amount.
- 15 Q. So at bottom the only difference between
- 16 your Approaches 1 and 2 is the retail price that you
- 17 apply to that 56 percent of revenue, correct?
- 18 A. That is in some sense correct, but there
- 19 is obviously information in the retail price that
- 20 consumers are paying for that product.
- 21 Q. Understand. But in Approach 1, you apply
- 22 that 56 percent against half of the Sirius XM ARPU
- 23 price, ARPU, correct?
- 24 A. That is correct.
- Q. And in Approach 2 you apply it against

- 1 the retail price for the non-interactive services
- 2 that you selected, correct?
- A. That is correct. And it comes out
- 4 roughly the same because of the consistency in the
- 5 marketplace between the percentage-of-revenue that
- 6 is paid by the interactive services and, in essence,
- 7 the ratio of the retail prices.
- 8 Q. Now, your Approach 2 is also identical to
- 9 an approach used by Professor Ordover in SDARS II,
- 10 isn't it?
- 11 A. With the same -- I am not precisely what
- 12 Professor Ordover did, I'm not -- sitting here I do
- 13 not know.
- Q. Well, you did indicate at your deposition
- 15 that at some point you read his deposition
- 16 testimony, is that correct?
- 17 A. That is correct. But I didn't commit to
- 18 memory -- when you showed me SDARS II, it -- he --
- 19 he appears to show, do a couple different approaches
- 20 as they describe. So what else he did, I do not
- 21 know.
- 22 O. That's fine. Let's call up on the
- 23 screen, and I will ask you in the same binder, sir,
- 24 the last tab, I believe, is a copy of Mr. Ordover's
- 25 written direct testimony in Satellite II?

- 1 MR. HANDZO: I am not going to object. I
- 2 am not aware that Professor Ordover's testimony in
- 3 SDARS II has ever been listed by Sirius XM as an
- 4 exhibit in this case. We have a process both to
- 5 list exhibits and to specifically call out which
- 6 ones may be used with a witness, and I don't believe
- 7 it has been listed at any time.
- 8 MR. RICH: This is being used for
- 9 impeachment, Your Honor.
- 10 MR. HANDZO: There is no statement that
- 11 contradicts anything in Professor Ordover's
- 12 testimony that could reasonably be called
- 13 impeachment.
- 14 MR. RICH: I haven't asked the questions
- 15 yet.
- MR. HANDZO: I think you need to ask the
- 17 question before you impeach the answer.
- 18 JUDGE BARNETT: That is true, Mr. Handzo.
- 19 So if you have a question that you are trying to
- 20 impeach with, what is the question?
- MR. RICH: My question is I was going to
- 22 address -- I was going to point the witness to a
- 23 specific paragraph in this which confirms, in fact,
- 24 and consistent with a prior reading by the witness
- 25 of this testimony that Mr. Orszag's Approach 2 is,

- 1 in fact, identical to the approach that Professor
- 2 Ordover had taken and which the Court had given
- 3 consideration to.
- 4 MR. HANDZO: That's not impeachment. And
- 5 Mr. Rich is trying to use a document which he has
- 6 never listed as an exhibit.
- 7 JUDGE BARNETT: Specifically what
- 8 statement of this witness?
- 9 MR. RICH: Pardon me?
- 10 JUDGE BARNETT: What is the specific
- 11 statement of this witness that you are --
- MR. RICH: I think the witness is trying
- 13 to convey that he and his team invented out of whole
- 14 cloth a methodology without any reference to prior
- 15 jurisprudential guidance, without prior work by
- 16 prior economists here. And it is -- it, frankly,
- 17 betrays any realm of coincidence that his two
- 18 approaches are identical to those approaches taken
- 19 by Professor Ordover. That's all.
- 20 JUDGE BARNETT: Do you have a question?
- 21 JUDGE STRICKLER: Yeah, I thought maybe
- 22 we can repeat this question and answer. Wasn't
- 23 there a question posed to the witness as to whether
- 24 what you did was identical to Professor Ordover?
- MR. RICH: Yes.

- 1 JUDGE STRICKLER: And the answer I
- 2 thought was no, it is not identical. And what I
- 3 thought you were about to do was say: Here is what
- 4 he did, isn't this identical?
- 5 MR. RICH: Precisely.
- JUDGE STRICKLER: Well, is there anything
- 7 more to this than that?
- 8 MR. RICH: No.
- 9 THE WITNESS: If I may for one second,
- 10 sir, I didn't say no, it is not identical. I don't
- 11 know what Professor Ordover did precisely, so I
- 12 can't give an answer one way or the other because
- 13 what he did and what I did, I have not matched up.
- 14 And I have read Professor Ordover's
- 15 testimony a year plus ago, and I haven't looked at
- 16 it since. So what he did I am not sure about.
- JUDGE BARNETT: So I don't think you can
- 18 impeach an "I don't know" answer, Mr. Rich.
- MR. RICH: Okay. We will move on.
- 20 JUDGE BARNETT: Sustained, Mr. Handzo.
- 21 BY MR. RICH:
- Q. A few questions about your testimony
- 23 concerning payments for free trials.
- 24 A. Sure.
- Q. You say there is -- and this is written

- 1 direct testimony, paragraph 85. You say there is,
- 2 "no sound basis for disparate treatment" of Sirius
- 3 XM trials and interactive service trials. Is that
- 4 correct?
- 5 A. That is correct.
- 6 Q. Have you provided any basis for the same
- 7 treatment?
- 8 A. Well, all the same -- the same underlying
- 9 analyses that show the similarities and
- 10 comparabilities between the markets and the fact
- 11 that there is -- in the same analyses that show the
- 12 relative comparability for the purposes of
- 13 substitution and promotion, et cetera, that I talk
- 14 about in here and Professor Ford and/or Dr. Ford and
- 15 Professor Williq will talk about more, are
- 16 consistent with using the interactive services as a
- 17 benchmark for considering the free trial issue.
- 18 Q. Have you done any examination of the
- 19 interactive trial subscription experience or process
- 20 as compared to Sirius XM's trial subscription
- 21 process?
- 22 A. To the extent that -- the answer is yes,
- 23 because I have looked at the current rules with
- 24 regard to trials with regard to interactive
- 25 services. And those are presented on the previous

- 1 page in slide -- I mean, Table 4.
- 2 And I have also examined the issue of
- 3 trials with regard to Sirius XM, both here and then
- 4 also in my written rebuttal testimony.
- 5 Q. And what have you learned specifically
- 6 with respect to the respective conversion rates for
- 7 interactive trial subscribers versus Sirius XM trial
- 8 subscribers?
- 9 A. The relative conversion rates is not an
- 10 analysis that I have conducted. I'm not aware of
- 11 the interactive services making such information
- 12 publicly available.
- 13 O. What examination have you made of Sirius
- 14 XM's access to trial subscriber contact or credit
- 15 card information and when it is first obtained?
- 16 A. Not to use an anecdote, but as a Sirius
- 17 XM subscriber, I actually just got an e-mail asking
- 18 for my credit card information after having gone
- 19 through a free trial. So Sirius XM, unlike some of
- 20 the interactive services, does not appear to require
- 21 a credit card in the process; whereas an interactive
- 22 service, the term of the free trial in terms of its
- 23 relationship with the labels depends in part in some
- 24 cases on whether the individual gives a credit card
- 25 or not.

- 1 For example, if an individual gives a
- 2 credit card with, I believe it is Spotify, the free
- 3 trial period is one month. And if you do not give a
- 4 credit card, I believe it is 14 days.
- 5 Q. Is the entirety of your knowledge about
- 6 Sirius XM's access to contacting credit card
- 7 information as a consumer?
- 8 A. No, it was a cite to an actual document,
- 9 I believe, in my report about the credit card issue.
- 10 Q. What examination have you made of Sirius
- 11 XM's access to e-mail addresses for subscribers and
- 12 when they are obtained?
- 13 A. I have not examined that narrow issue.
- 14 JUDGE STRICKLER: Excuse me. When you
- 15 looked at trial subscriptions, both for interactive
- 16 streaming and Sirius XM, did you see whether there
- 17 were different opt-in or opt-out provisions for
- 18 those who were trial subscribers?
- 19 That is to say, after the trial period
- 20 ended, did subscribers have to affirmatively opt-in
- 21 to continue and pay or did they have to
- 22 affirmatively opt-out to avoid paying?
- 23 THE WITNESS: It is a great question. I
- 24 did not examine that issue because in the way that
- 25 I'm proposing to do my -- the free trial, what

- 1 matters is what -- there is a three-part question.
- 2 How should we pay that proposed
- 3 per-subscriber for the reasons I described
- 4 yesterday, so I won't repeat that.
- 5 When should they start paying? So that
- 6 -- the opt-in versus opt-out is a fascinating
- 7 question. But it doesn't go to the question of when
- 8 should they start paying. And then the question is
- 9 at what rate.
- 10 And I'm using the conversion rate within
- 11 Sirius, and that 40 percent of people convert and 60
- 12 don't. And I am using that information only for
- 13 Sirius. I haven't compared that 40 percent
- 14 conversion rate to what an interactive service does.
- 15 And I haven't compared, thus, what could explain
- 16 those differences in terms of opting in or out.
- 17 But it is a really fascinating question
- 18 to potentially examine, but I don't think it goes to
- 19 the heart of what the appropriate rate should be for
- 20 Sirius here.
- JUDGE STRICKLER: Thank you.
- 22 BY MR. RICH:
- 23 Q. Many interactive services have a free
- 24 tier; is that right?
- 25 A. That is correct.

- 1 Q. So after 30 days on Spotify, for example,
- 2 a subscriber can continue using Spotify's free tier;
- 3 is that right?
- 4 A. That is correct.
- 5 Q. For months or even years?
- 6 A. That is correct.
- 7 Q. So the free trial doesn't really end
- 8 after 30 days, correct?
- 9 A. Well, you have a service that is
- 10 different than the service that you receive if you
- 11 pay for the subscription because you have to view
- 12 ads or listen to ads, depending upon which service
- 13 it is.
- Q. Spotify's payments to the labels for the
- 15 free tier are a small fraction of its payments for
- 16 the subscription tier, correct?
- 17 A. In total, it would -- it would be a small
- 18 fraction because they are -- the number of people
- 19 who are falling into the trial subscriber category,
- 20 just as under my proposal, the vast majority of the
- 21 Sirius XM subscribers would be paying full freight
- 22 instead of paying under the trial subscribers as
- 23 well.
- Q. But, in any event, the Spotify Free
- 25 trialers can convert to being a paying subscriber

- 1 from the free tier well after the 30-day period,
- 2 correct?
- 3 A. That is correct, but they are obviously
- 4 paying full royalties whenever the trial ends.
- 5 Q. Pardon me. I didn't mean to interrupt.
- A. I was going to say, yes, but obviously
- 7 they are -- depending upon the agreement, that
- 8 Spotify can only provide a free trial for a period
- 9 of time. And after that time it pays the royalty
- 10 rate under the contract.
- 11 Q. But with Sirius XM, by comparison, at the
- 12 end of free trials, the radio is turned off,
- 13 correct? There is no free tier?
- 14 A. That is correct. There is not a free
- 15 tier on Sirius.
- 16 Q. Now, in your written direct testimony at
- 17 paragraph 90, you suggest that Sirius XM would have
- 18 an incentive to shift to unpaid trials to avoid
- 19 paying Sirius XM royalties, a suggestion you called
- 20 "gamesmanship."
- 21 Do you recall that testimony?
- 22 A. Yes, sir.
- Q. What evidence do you have that Sirius
- 24 XM's use of unpaid trials has been motivated by a
- 25 desire to avoid paying SoundExchange royalties?

- 1 A. I'm just talking about the economic
- 2 incentive that would be present to shift when one is
- 3 not -- there is no royalty associated with one and a
- 4 royalty payment associated with the other approach.
- And so given that incentives, it provides
- 6 incentives for them to move from paid trials to
- 7 unpaid trials, holding all else constant. And
- 8 consistent with that incentive, we have seen a shift
- 9 from -- and this is presented in Table 5 and then in
- 10 a footnote, as well in this report -- a shift from
- 11 paid trials to unpaid trials.
- I am not saying that they have engaged in
- 13 gamesmanship. I am saying that there is an
- 14 incentive to move in that direction. And what one
- 15 would want to do is to ensure that the system of
- 16 payment is consistent with being neutral between
- 17 those options, so that there is not a distortion in
- 18 the marketplace.
- 19 Q. So you are not neutral in attempting
- 20 slyly to create an implicit causation there, are
- 21 you; that is, namely, that the potentially
- 22 independent events of legitimate business reasons
- 23 for moving to more free trials may be well
- 24 completely associated with reasons having nothing to
- 25 do with gamesmanship? You just don't know, you are

- 1 speculating, aren't you?
- 2 A. That the economic incentive is in place,
- 3 and so the better idea is to ensure that the trials
- 4 are neutral with regard to those issues from an
- 5 economic perspective, and so that there is not the
- 6 incentive in place to ensure that that happens.
- 7 Q. So speaking of economics, can you think
- 8 of any reason that Sirius XM would forego 89 cents
- 9 on the dollar to avoid paying 11 cents to
- 10 SoundExchange?
- 11 A. Because it is not just that simple.
- 12 Because in the context of the paid trials, there is
- 13 both costs that are incurred and revenues that are
- 14 received. And if you have the incentive that under
- 15 one you are paying 11 cents and under the other you
- 16 can pay zero, you may say: Okay, what I'll do is
- 17 reduce the revenue piece and accept more of the
- 18 costs associated with those paid trials. That's the
- 19 incentive that I'm concerned about.
- 20 And so it is much better to say from an
- 21 economic perspective that there is a single royalty
- 22 paid for unpaid and paid trialers. And whatever
- 23 revenue Sirius can collect on that -- on those, for
- 24 those trials is theirs to keep. That would be a
- 25 non-distorting system for trials.

- 1 And that's why -- the issue that's at
- 2 here, is that if it were just revenue, I would
- 3 agree, but there is also the cost items in these
- 4 agreements. And that has to be considered as well.
- 5 O. You are right in saying it is not so
- 6 simple. Might you agree that it could just be that
- 7 Sirius XM has determined in its business judgment
- 8 that it is worth the short-term revenue hit to
- 9 entice a customer to subscribe and pay for a
- 10 multi-year period?
- 11 A. All trials by definition have that
- 12 incentive. The point is right now there is a
- 13 difference between paid and unpaid. And so to
- 14 harmonize the incentives there ensures that we have
- 15 an efficient outcome from the perspective of
- 16 consumers and from the perspective of the
- 17 participants in this negotiation, in some sense this
- 18 outcome, the label and the service.
- 19 And we have that circumstance when you
- 20 look at the interactive market that there is a
- 21 commonality of interest, but right now there is not
- 22 a commonality of interest between paid trials and
- 23 unpaid trials. And that's the issue that concerns
- 24 me from an economic incentives perspective. And so
- 25 harmonizing that makes economic sense.

- 1 Q. You don't sitting here today profess to
- 2 have a full picture of all of the business
- 3 rationales that drive Sirius XM's free trial
- 4 programs, right?
- 5 A. I defer to the businesspeople about all
- 6 their business rationales. What I can focus on is
- 7 the economic incentives created by the current
- 8 structure where there is a royalty paid in one
- 9 circumstance and not in the other.
- 10 Q. Now, in your written rebuttal testimony
- 11 you propose that the payment for free trial
- 12 subscribers be cut approximately in half; is that
- 13 right?
- 14 A. That is correct.
- Q. Are you aware that's not a part of any
- 16 SoundExchange fee proposal in this case, rate
- 17 proposal?
- 18 A. Sitting here today, what is their
- 19 proposal versus my analysis, I do not know one way
- 20 or the other.
- Q. Now, referencing your written rebuttal
- 22 testimony in paragraph 60, if you want to take a
- 23 look at that. What evidence do you have that it is
- 24 possible for Sirius XM to just "increase its
- 25 conversion rates"?

- 1 A. Am I missing this? In paragraph 60? I
- 2 don't see a mention of --
- MR. HANDZO: I am not sure you have the
- 4 right paragraph.
- 5 MR. RICH: Sorry.
- 6 MR. EBIN: 64.
- 7 MR. RICH: Thank you.
- 8 BY MR. RICH:
- 9 Q. Are you there now?
- 10 A. Yes.
- 11 Q. Do you have the question?
- 12 A. Not precisely. Would you mind repeating
- 13 it?
- Q. So you suggest that a simple solution
- 15 here would be for Sirius XM just to increase its
- 16 conversion rates. What information and knowledge do
- 17 you have about the ease or difficulty Sirius XM
- 18 would have in simply increasing its conversion
- 19 rates?
- 20 A. That's not exactly what I propose. So
- 21 what I -- I say is that confronted with a new
- 22 structure where free trials are paying a royalty
- 23 consistent with the interactive services benchmark,
- 24 they would be free to make a profit-maximizing
- 25 decision to redesign their free trial program to

- 1 optimize in this new, more efficient structure.
- 2 And so they may choose to collect credit
- 3 card information or they may choose to shorten the
- 4 period or they may say, you know what, even with the
- 5 current structure, what we have now is optimal. It
- 6 would be their decision then to make a
- 7 profit-maximizing decision consistent with their
- 8 incentives when you have a more efficient royalty
- 9 structure.
- 10 Q. So Sirius XM by your likes should put the
- 11 SoundExchange payment cart ahead of the business
- 12 horse and potentially turn its business upside down
- 13 to make sure that SoundExchange gets paid on free
- 14 trials after 30 days?
- 15 A. No. I mean, the idea here is that
- 16 artists, when -- if Sirius XM believes that what is
- 17 good for Sirius XM is good for the artist, the
- 18 artist and the labels as evidenced by the fact that
- 19 the trials in the interactive market tend to be on
- 20 the order of magnitude of one month, where the
- 21 trials for Sirius XM tend to be longer, are losing
- 22 revenue that they otherwise would have received
- 23 given the substitution patterns.
- And so they have an interest in ensuring
- 25 that they are fairly compensated. And so it is

- 1 consistent with the factors, it is consistent with
- 2 the benchmark that the royalty would be set up in
- 3 that structure. And then given that structure, they
- 4 would then optimize the system to use.
- 5 Q. Let's change subjects. You are aware
- 6 that Sirius XM, in addition to offering a satellite
- 7 radio service, also offers a subscription webcasting
- 8 service, correct?
- 9 A. That is correct.
- 10 Q. And that service pays pursuant to the
- 11 statutory license covering non-interactive
- 12 webcasters, correct?
- 13 A. I believe that to be true, yes.
- Q. And I will represent to you that they are
- 15 paying at the rate set in the Web IV proceeding,
- 16 okay?
- 17 A. Sure.
- 18 Q. Now, Sirius XM's webcasting service is
- 19 quite similar to Sirius XM's satellite service,
- 20 correct?
- 21 A. I haven't studied in detail, but I
- 22 believe there is a lot of similarities.
- Q. And if anything it offers slightly more
- 24 functionality than offered on the satellite service,
- 25 true?

- 1 A. It offers, in the sense that you can
- 2 skip, yes.
- Q. Okay. So Sirius XM currently pays .22
- 4 cents for each performance on its subscription
- 5 webcasting service that you understand, right?
- 6 A. That is correct.
- 7 Q. And so if we, by way of example, took a
- 8 subscriber who listens to 469 performances a
- 9 month -- just to pick a random number -- I will
- 10 represent to you that the math times .22 cents would
- 11 be \$1.03 per month per-subscriber. Okay? Would
- 12 that be correct mathematically?
- 13 A. Given that those are similar numbers to
- 14 those presented by Professor Shapiro, yes.
- Q. Okay. And that \$1.03 per month under
- 16 that assumption would be true if a subscriber to
- 17 Sirius XM's webcasting service listened to these
- 18 performances through its Smartphone in the car,
- 19 correct?
- 20 A. That is correct.
- 21 Q. Now, in your view Sirius XM should pay
- 22 SoundExchange rates approaching 3 dollars for each
- 23 of its satellite subscribers, including for those
- 24 who listen to, let's say, 469 performances a month,
- 25 correct?

- 1 A. That is correct.
- Q. Or nearly three times as much as it pays
- 3 for a subscriber that listens to the same content in
- 4 the same quantity but does so on the webcasting
- 5 service, correct?
- A. Just to be precise, I give a range. You
- 7 picked the highest end of the range. I used \$2.43
- 8 to 3 dollars as my reasonable range.
- 9 Q. But a large -- a largely different sum,
- 10 correct?
- 11 A. That is correct.
- 12 Q. With respect to direct licenses, with
- 13 respect to direct licenses, is it your view that
- 14 Sirius XM's direct licenses were negotiated under
- 15 workably competitive conditions?
- 16 A. Well, here is the -- the market involving
- 17 Sirius XM has characteristics consistent with
- 18 workable competition. The negotiation does not
- 19 approximate a pure willing buyer/willing seller
- 20 framework, given that it -- the fall-back option,
- 21 the walk-away option is not a -- is not having
- 22 access to the service, but, rather, the statutory
- 23 rate, which means that that negotiation occurs in
- 24 the shadow of the statutory rate.
- 25 And so it doesn't purely fit within the

- 1 willing buyer/willing seller framework for those
- 2 reasons.
- 3 Q. So have you modified your view on that
- 4 topic since you were asked that question at your
- 5 January deposition?
- A. I am obviously informed by the additional
- 7 work that I have done. I don't remember my precise
- 8 answer to that question, but in my view, I think
- 9 what I was saying at the time was that my -- that
- 10 the degree of competition in the two markets was
- 11 approaching the similar levels.
- Q. I think what you actually said in your
- 13 deposition was it was a fair proposition in response
- 14 to being asked whether direct licenses have been
- 15 negotiated under workably competitive conditions?
- 16 A. In -- I think my answer right now is the
- 17 market involving Sirius is yes, for the reasons I
- 18 just articulated, but you have to -- it is in the
- 19 shadow of that regulation.
- 20 O. Now, in your view Sirius XM should pay
- 21 either a percentage-of-revenue rate or a
- 22 per-subscriber rate, correct?
- 23 A. I -- mine are equal, so I am proposing
- 24 one or the other, and so because I have, through my
- 25 methodology, I have equated those two, it is six one

- 1 way-half dozen another.
- 2 Q. But you are not proposing a greater-of
- 3 payment metric, are you?
- 4 A. I have not put in my testimony a
- 5 greater-of metric.
- JUDGE STRICKLER: Was that an intentional
- 7 omission?
- 8 THE WITNESS: No. I was just proposing
- 9 an approach to come up with the analysis in terms of
- 10 equating the per subscriber and the
- 11 percentage-of-revenue. If you went to the pure
- 12 benchmark, the pure benchmarks are obviously using
- 13 greater-of provisions, but I was seeking to just
- 14 measure what the current market rates are and what
- 15 would be an appropriate level for the rate for
- 16 Sirius XM.
- 17 JUDGE STRICKLER: Thank you.
- 18 MR. RICH: For the last segment, which is
- 19 brief, Your Honors, in my examination we should go
- 20 on the restricted record.
- 21 JUDGE BARNETT: We will ask anyone in the
- 22 room who is not privy to restricted information to
- 23 please wait outside.
- 24 (Whereupon, the trial proceeded in
- 25 confidential session.)

- 1 OPEN SESSION
- 2 MR. HANDZO: Although if I go ahead, I
- 3 will be done before they get in.
- 4 JUDGE BARNETT: That's fine.
- 5 REDIRECT EXAMINATION
- 6 BY MR. HANDZO:
- 7 Q. Just a couple of questions, Mr. Orszag.
- 8 And I won't ask you to play with any numbers.
- 9 Somewhere this morning I think you were
- 10 being asked about anti-steering provisions. And you
- 11 talked about cases that have found that they can be
- 12 pro-competitive. Do you have any particular case or
- 13 cases in mind?
- 14 A. The case that comes to mind is the
- 15 Appeals Court in American Express where I believe a
- 16 District Court -- and this just -- I defer to others
- 17 who may know more about this. The District Court
- 18 ruled the anti-steering provision in that case was
- 19 anticompetitive and the Appeals Court overruled the
- 20 District Court and wrote pretty explicitly about the
- 21 pro-competitive nature of such anti-steering
- 22 provisions.
- Q. Do you recall if that was the Second
- 24 Circuit?
- 25 A. I believe the Second Circuit because the

- 1 case was in New York, so that would make sense.
- 2 Q. And then at the very outset Mr. Rich
- 3 asked you some questions about your qualifications
- 4 and asked you about certain cases that you had
- 5 worked on.
- 6 He didn't ask you about FTC versus
- 7 Staples and Office Depot. Do you recall that case?
- 8 A. Yes, I do.
- 9 Q. What was that case about?
- 10 A. A merger of two office supply firms, one
- 11 was Staples and one was Office Depot. They were
- 12 seeking to merge. And the FTC sought to block the
- 13 merger. And so I was the witness for the parties
- 14 for Staples and Office Depot.
- 15 Q. And what law firm engaged you for that
- 16 case?
- 17 A. I was engaged both by Simpson Thatcher,
- 18 who represented Office Depot, and Weil Gotshal who
- 19 represented Staples.
- 20 Q. And was that the first time you have ever
- 21 been engaged by Weil Gotshal?
- A. No, it is not.
- MR. HANDZO: Thank you. That's all I
- 24 have.
- MR. RICH: One question, Your Honor?

- 1 JUDGE BARNETT: Sure.
- 2 RECROSS-EXAMINATION
- 3 BY MR. RICH:
- 4 Q. It may be an exercise in self-mutilation.
- 5 What was the outcome of the Staples
- 6 trial?
- 7 A. I did not testify in the case. There was
- 8 a decision by counsel to rest the defense prior to
- 9 any defense, so I ultimately did not testify in
- 10 court. And the judge ruled to block that merger.
- 11 Q. Against the advocacy which you were
- 12 making and would have made on the stand, correct?
- 13 A. I never made the advocacy. I never
- 14 presented my testimony in front of the judge. So
- 15 the answer is the judge explicitly noted the fact
- 16 that given the fact that I hadn't testified, he
- 17 couldn't rely on anything that I had --
- Q. But adverse to the parties whom you
- 19 consulted, correct? The decision was adverse to the
- 20 parties whom you acted as a consultant for, correct?
- 21 A. That is correct.
- MR. RICH: Thank you. No further
- 23 questions.
- JUDGE BARNETT: Anything further? Thank
- 25 you, Mr. Orszag. You may be excused.

- 1 THE WITNESS: Thank you very much.
- MR. HANDZO: I think we're prepared to
- 3 call our next witness, Professor Lys. I just need a
- 4 moment to move the deck chairs around.
- JUDGE BARNETT: Okay. Why don't we take
- 6 about a five-minute break just to shift gears.
- 7 (A recess was taken at 2:12 p.m., after
- 8 which the hearing resumed at 2:21 p.m.)
- JUDGE BARNETT: Please be seated, all but
- 10 the witness. Please raise your right hand.
- 11 Whereupon--
- 12 THOMAS LYS,
- 13 having been first duly sworn, was examined and
- 14 testified as follows:
- 15 JUDGE BARNETT: Please be seated.
- MR. WARREN: Good afternoon, Your Honors.
- MR. TOLIN: I don't mean to interrupt. I
- 18 am Adam Tolin from Weil on behalf of Sirius. It is
- 19 a pleasure to be here.
- 20 Before Professor Lys's direct examination
- 21 begins, I wanted to put on the record that we have a
- 22 pending motion in limine to strike a portion, a
- 23 section of Professor Lys' rebuttal testimony. And I
- 24 should note that it does impact five of the slides
- 25 that I think counsel intends to use on direct

- 1 examination.
- I am happy to argue it now or if you
- 3 would prefer another time, we can take it up, but
- 4 there will be at least five slides that are taken
- 5 from that very portion that we believe should be
- 6 stricken.
- 7 JUDGE BARNETT: Why don't we wait until
- 8 we get there, and then we will decide what to do
- 9 next. Thank you, Mr. Tolin.
- MR. TOLIN: Thank you.
- JUDGE BARNETT: Judge Feder just reminded
- 12 me, it is a demonstrative, so it wouldn't be
- 13 admitted anyway. It is just illustrative of his
- 14 testimony. It is not admissible.
- MR. TOLIN: That's true. Thank you.
- 16 JUDGE BARNETT: Okay.
- 17 MR. WARREN: Good afternoon, Your Honors.
- 18 Before I have the witness introduce himself, I
- 19 thought I should introduce myself. My name is
- 20 Previn Warren. And I am counsel for SoundExchange
- 21 and the other rightsholders participants, along with
- 22 Mr. Handzo, wherever he disappeared off to, and the
- 23 other attorneys at Jenner & Block.
- We do have one bit of housekeeping as
- 25 well. Prior to this morning's proceedings, counsel

- 1 for Sirius XM and I reached agreement on the
- 2 admissibility of three additional exhibits. I would
- 3 seek now to move those exhibits into evidence as
- 4 they are unopposed. Those are Exhibits 172, 174,
- 5 and 311.
- JUDGE BARNETT: Hearing no objection,
- 7 those three exhibits are admitted.
- 8 (SoundExchange Exhibit Numbers 172, 174
- 9 and 311 were marked and received into evidence.)
- MR. WARREN: Thank you, Your Honor.
- 11 DIRECT EXAMINATION
- 12 BY MR. WARREN:
- 13 Q. Professor Lys, could you please introduce
- 14 yourself.
- 15 A. Yes, my name is Thomas Lys. I'm a
- 16 professor emeritus at the Kellogg School at
- 17 Northwestern University.
- Q. And, Professor, what is your educational
- 19 background?
- 20 A. I have a degree in economics from the
- 21 University of Bern in Switzerland. And I have a
- 22 Ph.D. in accounting and finance from the University
- 23 of Rochester.
- Q. How long have you been a professor?
- 25 A. So my active professorship was 35 years.

- 1 And for the last two years and the next one year, I
- 2 will be a professor emeritus in service and
- 3 thereafter just a professor emeritus.
- 4 O. And what is the difference between
- 5 professor emeritus in service and professor
- 6 emeritus?
- 7 A. As far as I can tell, this is a newly
- 8 invented category. When I was negotiating my
- 9 emeritus transition, I still had two Ph.D. students
- 10 in the pipeline. And I thought it would be unfair
- 11 to them to abandon them mid-stream.
- 12 And so one of the items I insist on
- 13 negotiating was that I would be able to act as the
- 14 chairperson for their dissertation. And that
- 15 required a different status with the university.
- Otherwise, emeriti are not allowed, is my
- 17 understanding, to serve as chairpersons of a
- 18 dissertation committee.
- 19 Q. Professor, what subjects have you taught
- 20 over the course of your career?
- 21 A. So I have taught accounting, finance, and
- 22 economics, econometrics, the standard classes. And
- 23 then I have also moved into behavioral finance and
- 24 behavioral economics. And also that led me to the
- 25 field of negotiations, which is kind of my youngest

- 1 venture in academia.
- 2 O. Professor, besides the Kellogg School at
- 3 Northwestern, where else have you taught?
- A. So I taught at the University of Chicago,
- 5 and I taught and I am still teaching at Stanford. I
- 6 taught at Stanford as a visiting professor, but I
- 7 also taught and I am still teaching in their
- 8 executive program. And I teach there the field of
- 9 negotiations.
- 10 Q. Tell us briefly about your research.
- 11 A. So my research began kind of traditional
- 12 where an accounting and finance Ph.D. would do, in
- 13 the security markets, in competition, in control,
- 14 disclosure, things of that nature.
- 15 Since then I have evolved slowly into
- 16 more the behavioral field. So my more recent paper
- 17 dealt with corporate social responsibility. I have
- 18 published a book on negotiation just recently two
- 19 years ago, so it kind of has evolved from the hard
- 20 core part of economics to the, for lack of a better
- 21 word, softer side of economics.
- Q. And have you been the editor of any
- 23 peer-reviewed journals?
- 24 A. Yes, for 11 years I have been one of the
- 25 editors of one of the top journals in the financial

- 1 economics field. It is the Journal of Accounting
- 2 and Economics. In terms of impact factor, I think
- 3 it is -- it was ranked Number 2, if my recollection
- 4 is correct. This is a measure of how many other
- 5 researchers are influenced by articles published in
- 6 a given journal.
- 7 Q. Has your own research been published in
- 8 any peer-reviewed journals?
- 9 A. Yes. I have approximately 35 refereed
- 10 publications in a multitude of journals starting
- 11 from the Journal of Accounting and Economics,
- 12 Journal of Financial Economics, Journal of
- 13 Monitoring Economics, Journal of Business, the
- 14 accounting review. I even -- it is not refereed,
- 15 but I have an article in the Harvard Business
- 16 Review.
- 17 Q. Professor, you mentioned that you have
- 18 increasingly been interested in behavioral finance.
- 19 Can you tell us a little bit about that area of
- 20 research for you?
- 21 A. Yes. It is a fascinating field. What it
- 22 turns out, economics is a very strong field. And it
- 23 explains a lot. But it also leaves a lot of issues
- 24 not explained, and so issues of fairness and how
- 25 people deviate from the optimal path.

- 1 And at Kellogg, and then my partner moved
- 2 to Stanford. I was exposed to a more
- 3 psychology-driven part of business education. And
- 4 that led me to try to collaborate with her. And
- 5 what we did is we developed a methodology where you
- 6 start with, you know, economics like game theory or
- 7 just standard macro/microeconomics and then you say:
- 8 Well, how would people deviate from this optimal
- 9 behavior, and you know, paying attention to sunk
- 10 costs, when we know you shouldn't?
- Being anchored, so I'm going to give you
- 12 a number and the number might be irrelevant, but you
- 13 can't get it out of your mind.
- 14 And so that's where kind of the
- 15 behavioral part comes in, that people sometimes
- 16 deviate from kind of the basic tenets of game
- 17 theory, sometimes referred to as classical
- 18 economics.
- 19 Q. Professor, you mentioned that you had
- 20 taught negotiation. Where have you taught that
- 21 course?
- 22 A. So the course is taught at Stanford.
- 23 That has gone now for, on and off for about ten
- 24 years. But we are also taking this on the road.
- 25 There is a very high demand.

- 1 It is actually very popular right now to
- 2 try to combine economics and psychology. And a lot
- 3 of people have realized that neither one alone does
- 4 a very good job in explaining human behavior.
- And so my partner and I have been giving
- 6 lectures worldwide. We have done the Middle East,
- 7 both Israel and Saudi Arabia and Kuwait and Dubai.
- 8 We have gone to Europe. We have lectured in
- 9 Switzerland and in Holland. And there were a few
- 10 more, but it is very popular right now.
- 11 And both -- also in the Americas, both
- 12 North and South America.
- 13 Q. Professor, have you been qualified as an
- 14 expert in any prior proceedings?
- 15 A. Yes, I think this is my third appearance
- 16 in this court. I have been in SDARS II, and I have
- 17 been in Web IV. And this is my third appearance in
- 18 SDARS III.
- 19 I have also submitted reports and been
- 20 deposed in what is sometimes referred to as the
- 21 underpayment case, so -- that's -- I don't know how
- 22 to count that.
- Q. Professor, I would direct your attention
- 24 to Exhibit 25, which is in the first binder of the
- 25 three. And this is your written direct testimony.

- 1 A. Yes.
- 2 O. Could I direct your attention to Appendix
- 3 A at the back of --
- 4 A. You said binder 3?
- 5 Q. It is binder 1 of 3.
- 6 A. Oh, okay, I'm sorry.
- 7 Q. And this binder just contains your
- 8 testimony and Professor Shapiro's testimony for
- 9 future reference.
- 10 A. Okay.
- 11 Q. If you could take a look at Appendix A to
- 12 your written direct testimony.
- 13 A. Yes, I am there.
- 14 Q. What is that?
- 15 A. So this is my curriculum vitae. It
- 16 starts with the academic portions, my publications,
- 17 and then working papers, books, et cetera. And then
- 18 it lists cases that I was involved with.
- 19 Q. Is there anything missing from this copy
- 20 of your CV?
- 21 A. Yes. It is almost embarrassing, Your
- 22 Honors, I forgot to list Web IV. I hope you still
- 23 remember me, though.
- Q. Is your CV otherwise accurate?
- 25 A. Yeah, I think so.

- 1 MR. WARREN: Your Honors, at this time I
- 2 would qualify Professor Lys as an expert in
- 3 financial economics, behavioral economics, and
- 4 negotiation.
- 5 MR. TOLIN: Your Honor, we would object
- 6 to Professor Lys being qualified in the field of
- 7 economics. No objection in the fields of finance
- 8 and accounting.
- 9 And if you would prefer or allow, I am
- 10 happy to voir dire him now or if it is -- if you so
- 11 desire, I can include that as part of my
- 12 cross-examination probably tomorrow but our
- 13 objection is specifically with respect to qualifying
- 14 Professor Lys in the field of economics.
- JUDGE BARNETT: Why don't you conduct
- 16 your voir dire now.
- 17 VOIR DIRE EXAMINATION
- 18 BY MR. TOLIN:
- 19 Q. Good afternoon, Professor Lys.
- 20 A. Good afternoon.
- 21 Q. Why don't we start with the document that
- 22 counsel was just reviewing with you, your CV,
- 23 Appendix A --
- 24 A. Okay.
- Q. -- to your written direct testimony. And

- 1 as you note, you have no Ph.D. in economics,
- 2 correct?
- 3 A. No, I have a degree from the University
- 4 of Bern, which is somewhere between a bachelor and a
- 5 master. And I would like to point out I graduated
- 6 summa cum laude.
- 7 Q. Then you attended the University of
- 8 Rochester here in the United States and received a
- 9 Ph.D. in accounting and finance, correct?
- 10 A. Well, yes, but you have to understand
- 11 that economics is the base discipline in accounting
- 12 and finance. So that's the underlying discipline.
- 13 And I would also like to point out that in my class,
- 14 of the entire Ph.D. class of my year, which were
- 15 roughly 17 students, I scored highest on the Econ
- 16 exam.
- 17 Q. You could have gotten a Ph.D. in
- 18 economics, those things exist. You chose not to get
- 19 a Ph.D. in economics. True?
- 20 A. Well, I don't think you can separate
- 21 these things. I think economics is the base
- 22 discipline of finance and accounting and many
- 23 others, so while my designation of a Ph.D. is not
- 24 economics, I think it is simply not true that you
- 25 can go through this without passing all the exams in

- 1 economics. In fact, as I told you, I did so much
- 2 micro, I was asking myself where is the accounting
- 3 or where is the finance?
- 4 Q. If you stay on page A-1 of your CV.
- 5 A. Yes.
- Q. Under Academic Appointments, you identify
- 7 all the different roles you have had at Kellogg over
- 8 the past couple of decades, right?
- 9 A. Yes.
- 10 Q. And your roles began back in 1981. You
- 11 were an assistant professor of accounting and
- 12 information systems, right?
- 13 A. Correct.
- O. And you had that role until 1989 at which
- 15 point you -- pardon, all the way up to 1995. True?
- 16 A. That's correct.
- Q. And then from 1995 to 1997 again you were
- 18 a professor of accounting and information systems
- 19 with a distinguished title, true?
- 20 A. Yes, but that -- those only refer which
- 21 department I lived in. This does not refer to what
- 22 I conducted research on or what I taught and what my
- 23 roles were.
- Q. Your titles in terms of your
- 25 professorship at Kellogg have always been with

- 1 respect to accounting and finance and never with
- 2 respect to economics; fair?
- 3 A. That's true, but I think you are
- 4 misinterpreting how academia works.
- 5 Q. If we can, I would like to put up the web
- 6 site for the Kellogg School. Joe, if you can do
- 7 that, it should appear on the screens for everyone.
- And you see here this is your page on the
- 9 Kellogg web site, right?
- 10 A. Correct.
- 11 O. Here in the overview it identifies in
- 12 summary fashion your background and your training
- 13 and the various courses you have taught, right?
- 14 A. That's correct, yes.
- 15 Q. All right. And there is a link on the
- 16 left-hand side of the page, the fourth link down
- 17 that is titled Faculty Experts Guide. Do you see
- 18 that?
- 19 A. Correct.
- 20 Q. And that, if you click on it, Joe, if you
- 21 could do that, please, it takes you to another page
- 22 where the faculty at Kellogg identify the specific
- 23 faculty that are experts within the various
- 24 disciplines.
- Do you see that?

- 1 A. Yes.
- Q. And so the very first one, accounting
- 3 information and management, if you expand it and you
- 4 hit the plus, it identifies, and I counted, it is
- 5 approximately 25 different subspecialties.
- A. Yeah.
- 7 Q. And you are identified as an expert
- 8 faculty member in a number of those fields, right?
- 9 A. I have to tell you I have never visited
- 10 this web site.
- 11 Q. Let's just for the sake of just
- 12 completing this, why don't we click on financial
- 13 accounting. And you will see that it identifies a
- 14 number of expert faculty members in that discipline.
- 15 And you see your name down there, the fifth name
- 16 listed, right?
- 17 A. Yes.
- 18 Q. If we can go back, Joe, if you scroll
- 19 down this page you see there is the field of
- 20 economics that's identified, right?
- 21 A. Yes.
- Q. And if you expand that, there are 28
- 23 different subspecialties ranging from applied
- 24 probability, econometrics, economic models, and I
- 25 can represent to you I -- I clicked on each and

- 1 every one of them, your name is not identified as an
- 2 expert faculty member under any one of those
- 3 subspecialties within the field of economics.
- 4 Did you know that?
- 5 A. I didn't know that, but I don't think
- 6 that's the way how you will assess my expertise. I
- 7 have published -- I have published in those fields.
- 8 JUDGE STRICKLER: Let me just interject
- 9 for a second. I think I saw this correctly in the
- 10 transcript that he was proffered as an expert in
- 11 financial economics, behavioral economics, and
- 12 negotiations.
- 13 And you went rather quickly through the
- 14 subsections on the screen here, and maybe we can go
- 15 back. I am looking at the economics is on the
- 16 screen here, and I don't see any separate section
- 17 within this University with regard to financial
- 18 economics.
- 19 If you can click back, if the gentleman
- 20 could click back to the accounting, I don't think we
- 21 have a separate subheading of financial economics
- 22 either. So perhaps the witness can explain how
- 23 financial economics either does or does not overlap
- 24 those two sections?
- THE WITNESS: So academic specialties and

- 1 these consulting opportunities, the purpose of this
- 2 web site is not to qualify professors or not
- 3 qualify. My vague recollection is that there is a
- 4 secretary in the dean's office and she asks you, you
- 5 know, we're trying to promote the faculty for the
- 6 consulting income, which is outside of the academic
- 7 activity, we allow you to have one day a week of
- 8 consulting without violating the loyalty to the
- 9 university, et cetera, where would you like to be
- 10 listed?
- 11 And so I could be -- I could say well,
- 12 put the category for entertainment, I would like to
- 13 tell jokes. And she would put --
- 14 JUDGE STRICKLER: I am not so interested
- 15 in the secretary's sense of humor or anything else,
- 16 but maybe you can define the field if it is, indeed,
- 17 a field or hybrid field of financial economics.
- 18 THE WITNESS: So, first of all, virtually
- 19 all the fields in the hard core part of the business
- 20 school have the basic discipline of economics as
- 21 underlying.
- So all the people that are in finance, in
- 23 economics, in accounting have actually passed
- 24 economics exams in the Ph.D. because it is required.
- JUDGE STRICKLER: So you took economics

- 1 courses at the graduate level to get your Ph.D.?
- THE WITNESS: Of course, yes. In fact, I
- 3 scored highest of the entire class, including those
- 4 that later on were listed under economics. So this
- 5 is the basic discipline.
- And the accounting, finance, real estate,
- 7 et cetera, are application of economics to specific
- 8 institutional settings. So financial economics
- 9 deals with how investors react to disclosure, for
- 10 example.
- 11 And how do investors value companies? It
- 12 is a special setting, but the base discipline is
- 13 economics. And, look, what is finance? Finance is
- 14 economics applied with a time dimension. Whether
- 15 everything happening at one point in time, you add
- 16 the question of multiple periods. And now how will
- 17 you substitute from one period to the other?
- But it is economics. It is simply adding
- 19 a time dimension. Accounting is economics with
- 20 adding the disclosure dimension to the field of
- 21 economics.
- 22 So to make the distinction counsel wants,
- 23 particularly from a web site whose main purpose is
- 24 to provide consulting income to the faculty, I think
- 25 is, how to say it, I'm surprised.

- 1 JUDGE STRICKLER: Thank you.
- 2 BY MR. TOLIN:
- Q. As I have come to learn as a trend in
- 4 this, Judge Strickler did anticipate my next
- 5 question.
- I wrote down that counsel attempted to
- 7 qualify you in the field of behavioral economics as
- 8 well. And there is a discipline, a sub-discipline
- 9 identified on the Kellogg faculty web site,
- 10 behavioral economics. And, Joe, if you could click
- 11 on that.
- 12 And if you scroll down we don't see your
- 13 name listed there. So your faculty colleagues at
- 14 the Kellogg School identified you as an expert in a
- 15 variety of fields within accounting and finance, but
- 16 not in the field of behavioral economics, right?
- 17 A. No, I mean, this is -- this is really
- 18 silly. I have never gone to the person that
- 19 services this and says: Could you please put me on
- 20 the following list? I found it not necessary.
- 21 But that does not -- you know, this is
- 22 not any kind of peer-review involved in this. This
- 23 is simply would you like to be included in this
- 24 club?
- 25 And I never saw a need or necessity or

- 1 any benefits of going to this administrator who runs
- 2 this web site and tell: Please add me to this list.
- 3 Had I done so? I could have been on every one of
- 4 them. I mean, there is no entry exam in being
- 5 listed there.
- JUDGE STRICKLER: Trying to put these two
- 7 strands together for the moment, you explained your
- 8 background in financial economics. And you just
- 9 gave a fairly exhaustive answer in that regard. And
- 10 you said over a years, a moment ago, that your
- 11 experience has become more specialized in behavioral
- 12 finance.
- 13 THE WITNESS: Yes.
- JUDGE STRICKLER: So you have explained
- 15 the financial underpinning, the economic
- 16 underpinnings of finance. What are the behavioral
- 17 underpinnings?
- 18 THE WITNESS: So I have developed a set
- 19 of materials, since my colleague is a psychologist,
- 20 and we have actually offered the class called
- 21 behavioral finance. And I have taught that both in
- 22 the degree program at Kellogg and also in several
- 23 non-degree programs.
- 24 And also if Your Honors, and I'm sorry to
- 25 advertise, but if you were to buy my book, and I

- 1 hope you do, it is an excellent book. You would see
- 2 that the pitch in the book is the combination of
- 3 traditional economics and psychology.
- 4 And so this is the integration. And I am
- 5 50 percent of that book.
- JUDGE STRICKLER: Thank you.
- 7 BY MR. TOLIN:
- 8 Q. Just a few more questions on this topic.
- 9 The Analysis Group is the consulting firm that you
- 10 are associated with and that was retained in this
- 11 matter by SoundExchange; is that right?
- 12 A. No, that's not right.
- 13 Q. Explain if you would for the record your
- 14 analysis to The Analysis Group?
- 15 A. They -- The Analysis Group is a
- 16 consulting firm, and they offer their services to
- 17 different parties that are in litigation, among
- 18 others. It is a consulting firm.
- 19 And they have their own experts. And
- 20 they also have what are called affiliate experts,
- 21 academic affiliates. And I have worked with them.
- 22 I have worked with two other firms as an academic
- 23 affiliate.
- Q. So if we could, Joe, if we could pull up
- 25 The Analysis Group web site that also has a bio for

- 1 you on it. Do you see that there on your screen,
- 2 Professor Lys?
- 3 A. Yes. I think it is a very nice picture
- 4 of me.
- 5 Q. And under Summary of Experience, The
- 6 Analysis Group writes, "Professor Lys is an expert
- 7 in accounting and finance, including real estate
- 8 finance, financial reporting, securities analysis,
- 9 and mergers and acquisitions."
- 10 A. Yeah.
- 11 Q. The Analysis Group does not identify you
- 12 as part of its advertising campaign here as an
- 13 expert in economics, right?
- 14 A. Again, you know, this is, this is a
- 15 marketing tool, and I don't know why they decided to
- 16 do that. They may have simply taken things from the
- 17 web site of Northwestern. I don't know. This is,
- 18 again, this has no gatekeeping function.
- 19 And I could have told them to add ballet
- 20 dancing on it, and there would have been a line that
- 21 I am also an expert in ballet.
- Q. We have looked at two different places,
- 23 both your academic affiliated web site and this
- 24 consulting group that you work for, and they have
- 25 identified you as an accounting and finance expert

- 1 but not an economist, right?
- 2 A. Yeah, but it is not a qualification.
- 3 There is no entry gatekeeper here. This is -- this
- 4 is simply a marketing tool. I think you are
- 5 misrepresenting or misunderstanding what is
- 6 happening here.
- 7 MR. TOLIN: I have no further questions
- 8 on qualifications.
- 9 MR. WARREN: Your Honor, if I may, I have
- 10 a few questions.
- JUDGE BARNETT: Yes.
- MR. WARREN: Thank you.
- 13 DIRECT EXAMINATION -- Resumed
- 14 BY MR. WARREN:
- 15 Q. Hello, Professor.
- 16 A. Hello.
- 17 Q. If I could direct you to the same
- 18 Appendix A that counsel was previously asking you
- 19 questions about.
- 20 A. Yes.
- Q. And I would like to ask you about some of
- 22 the publications identified in that curriculum
- 23 vitae.
- 24 A. Yes.
- Q. So let's start under publications/books

- 1 on page A-4. Do you see that page?
- 2 A. Yes.
- 3 Q. And there is a couple entries there.
- 4 One, "Economic Analysis and Political Etiology, the
- 5 Collected Essays of Karl Brunner"?
- 6 A. Yes.
- 7 Q. And above that "Monetary Theory and
- 8 Monetary Policy, the Collected Essays of Karl
- 9 Brunner."
- 10 A. Yes.
- 11 Q. Did those publications involve economics?
- 12 A. Yes, Karl Brunner was my mentor. And
- 13 when he was in the final stages of his life, he
- 14 asked me to publish these collected essays. And I
- 15 made that promise to him. And I acted as editor
- 16 fulfilling that promise.
- Q. Okay. And then above that in numbered
- 18 item 4 there is an article you wrote entitled "Daily
- 19 Monetary Impulses and Security Prices." Where was
- 20 that published?
- 21 A. That's -- that's published in the Journal
- 22 of Monitoring Economics.
- Q. Did that involve economics?
- 24 A. Yes.
- Q. On the next page A-3, sorry, a page

- 1 earlier, Number 6, "An Empirical Analysis of the
- 2 Incentives to Engage in Costly Information
- 3 Acquisition: The Case of Risk Arbitrage."
- 4 Where was that published?
- 5 A. Journal of Financial Economics. And let
- 6 me emphasize these journals add the word "economics"
- 7 in the title because the ground discipline, the
- 8 underlying discipline is economics.
- 9 Q. Okay. And then Number 9, "The Market For
- 10 Audit Services: Evidence From Voluntary Auditor
- 11 Changes, " where was that published?
- 12 A. Journal of Accounting and Economics.
- 13 Q. Did that article involve economics?
- 14 A. Of course. They all do.
- Q. Okay. And 11, "Research Design Issues in
- 16 Grouping-Based Tests, " where was that published?
- 17 A. That was published in the Journal of
- 18 Financial Economics. And that incidentally is an
- 19 econometrics paper. It is almost pure, pure
- 20 econometrics statistics.
- O. And I have -- so that we're not here all
- 22 day, I take it there is several other publications
- 23 that you have published in the Journal of Financial
- 24 Economics and the Journal of Accounting and
- 25 Economics; is that correct?

- 1 A. That's correct.
- Q. And did those publications, in fact,
- 3 involve economics?
- 4 A. Of course.
- 5 Q. Now, I see here on page A-5 editorial
- 6 positions. You are listed as the editor of the
- 7 Journal of Accounting and Economics from 1999 to
- 8 2010. Is that right?
- 9 A. That's correct.
- 10 Q. Did you, in fact, have to review any
- 11 manuscripts concerning economics in your role as
- 12 editor of the Journal of Accounting and Economics?
- 13 A. I reviewed approximately 650 manuscripts.
- 14 And a large number of them involved economics,
- 15 economic modeling, and econometrics. Are usually
- 16 when something involves the editors of the journal,
- 17 there were at the time four or five editors, I don't
- 18 remember, have their specialties.
- 19 And when something was squarely
- 20 economics, more likely than not I was the one to
- 21 whom the paper was assigned to.
- Q. Now, Professor, you stated that you have
- 23 previously been qualified as an expert in
- 24 proceedings before the Copyright Royalty Board.
- 25 Have you been qualified as an expert in any other

- 1 proceedings besides CRB proceedings?
- 2 A. Before this Board or in general?
- 3 Q. Before any tribunal.
- 4 A. Yes, yes.
- 5 Q. On approximately how many occasions were
- 6 you qualified as an expert?
- 7 A. I would say at least two dozen where I
- 8 actually ended up in the testify -- I did probably
- 9 around 40 cases in my lifetime. But, you know, many
- 10 of them settle or, you know, et cetera. I probably
- 11 wrote reports in 35 or so of those.
- 12 Q. And in any of those cases were you
- 13 qualified as an expert in any sub-branch of
- 14 economics or economics itself?
- 15 A. Yeah, yeah, in virtually all of them.
- 16 Q. Are there any specific cases that come to
- 17 your attention that you think are relevant to your
- 18 qualifications as an expert in financial economics
- 19 or behavioral economics in this proceeding?
- 20 A. I would have to think about it. You
- 21 know, it is not the way I code things, so I would
- 22 have to think about that.
- Q. Professor, were you an expert in any
- 24 cases involving Enron?
- 25 A. Yes.

- O. Can you tell us a little bit about that?
- 2 A. So Enron dealt with the consequences of
- 3 misreporting and misleading investors. And that
- 4 testimony included both disclosure issues, what is
- 5 proper disclosure, and also how would investors
- 6 reasonably respond to this disclosure. That's the
- 7 economics part.
- 8 MR. WARREN: Okay. Your Honors, I have
- 9 no further questions about Professor Lys'
- 10 qualifications. I would renew my motion to qualify
- 11 him as an expert in behavioral economics, financial
- 12 economics, and negotiation.
- JUDGE BARNETT: Thank you. I want to
- 14 consult with my colleagues briefly.
- MR. WARREN: Sure.
- 16 (Brief recess: 2:53-2:57 p.m.)
- JUDGE BARNETT: Please be seated.
- 18 Even before today, obviously, the Judges
- 19 had reviewed the materials submitted by Dr. Lys, and
- 20 were familiar with his curriculum vitae from his
- 21 current submissions, as well as his previous
- 22 submissions.
- 23 As you are all aware, a witness may be
- 24 qualified as an expert by knowledge, skill,
- 25 experience, training, or education. Dr. Lys has all

- 1 of the necessary qualifications to be qualified as a
- 2 -- in the fields of financial economics, behavioral
- 3 economics, and --
- 4 MR. WARREN: Negotiations, Your Honor.
- 5 JUDGE BARNETT: -- negotiations. Thank
- 6 you.
- 7 MR. WARREN: Thank you.
- 8 BY MR. WARREN:
- 9 Q. All right, Professor.
- 10 Could you please take a look at
- 11 Exhibit 42, which is a copy of your written rebuttal
- 12 testimony.
- 13 A. Yes.
- Q. Did you write this report?
- 15 A. Yes, I did.
- 16 Q. And if you could just turn to the
- 17 signature page near the end, which is across from
- 18 page C-4. It is up on your screen.
- 19 A. Yes.
- 20 Q. Is that your signature?
- 21 A. Yes, it is.
- 22 Q. Okay.
- MR. WARREN: Your Honors, I move that
- 24 Exhibit 42 be admitted into evidence, which is the
- 25 written rebuttal testimony of Professor Lys.

- 1 MR. TOLIN: Subject to our motion in
- 2 limine that we discussed earlier, we have no
- 3 objection to the bulk of it. There is just one
- 4 section that we object to.
- JUDGE BARNETT: Thank you. Then subject
- 6 to our being able to review that motion, we will
- 7 admit Exhibit 42.
- 8 Did you offer the written direct?
- 9 MR. WARREN: Yes, that's already been
- 10 admitted, Your Honor, unobjected to.
- 11 (Joint Exhibit Number 42 was marked and
- 12 received into evidence.)
- JUDGE BARNETT: Okay. Thank you.
- MR. WARREN: Thank you for the reminder,
- 15 though.
- 16 BY MR. WARREN:
- 17 Q. Professor, please direct your attention
- 18 to the screen. Are these the topics that you
- 19 addressed in your written testimony?
- A. Yes, they are.
- 21 Q. And are these the topics that you intend
- 22 to cover today?
- 23 A. I hope so, yes.
- 24 O. And tomorrow.
- 25 A. Yes.

- 1 Q. Can you briefly walk us through this
- 2 overview.
- A. So the first one is something that was
- 4 already discussed several points, times, but what
- 5 would the SDARS I decision look like today if we
- 6 started that and updated it for the purchasing power
- 7 changes in the dollar.
- 8 And the second one is -- relates to the
- 9 performance of Sirius XM over the most recent past
- 10 since the merger in 208. And the third one is my
- 11 review of the direct licenses, which are a big part
- 12 of these proceedings.
- 13 And the fourth part is my analysis of the
- 14 two models that Professor Shapiro offers in support
- 15 of his testimony.
- 16 Q. Thank you, Professor.
- So I take it we have some Greek in our
- 18 future. You said "208." Did you mean 2008?
- 19 A. Oh, yes, I'm sorry. I tend to make that
- 20 mistake all the time.
- 21 Q. All right. Now, Professor, are you
- 22 familiar with the SDARS I proceeding?
- 23 A. Yes.
- Q. Were you a witness?
- 25 A. No, I was not.

- 1 O. How are you familiar with SDARS I?
- 2 A. Well, obviously I was a witness in SDARS
- 3 II, and so the topic of SDARS I came up repeatedly
- 4 in those proceedings. I also, when preparing my
- 5 testimony, went back and refamiliarized myself with
- 6 at least the issues that I needed for this analysis.
- 7 O. Tell us about the royalty rate that the
- 8 Judges reached in SDARS I.
- 9 A. So the beauty of SDARS I was that we
- 10 actually had a glimpse of what the Judges ruled as
- 11 being the market rate before applying any 801(b)
- 12 factors. And the number that they named there was
- 13 \$1.40, the most likely representative of the market
- 14 rate that would be prevailing in that period.
- Q. And, Professor, when you say \$1.40, can
- 16 you put a metric on that, \$1.40 per what?
- 17 A. Per-subscriber, per month.
- 18 Q. Did the Judges convert that \$1.40
- 19 per-subscriber, per month into a
- 20 percentage-of-revenue rate?
- 21 A. Yes.
- 22 O. And what was that rate?
- 23 A. That rate was 13 percent.
- Q. Is that the rate they, in fact, set in
- 25 that proceeding?

- 1 A. No. And then they applied adjustments as
- 2 suggested by Section 801(b), and they came up, from
- 3 recollection now, starting at 6 percent escalating
- 4 from there.
- 5 Q. Have you attempted to calculate what the
- 6 \$1.40 per-subscriber rate would be in today's
- 7 dollars?
- 8 A. Yes, I did.
- 9 Q. And so please direct your attention to
- 10 the screen. Is this a fair and accurate
- 11 reproduction of figure 37 from your written direct
- 12 testimony?
- 13 A. It is.
- 14 Q. And what does this figure depict?
- 15 A. So it gives from the 2006 period, which
- 16 was the baseline, which is \$1.40 of per-subscriber
- 17 per month, I then computed for each year if you
- 18 adjust them simply for the CPI inflation through
- 19 2016, so that's the white column, second column,
- 20 gives you the actual CPI inflation rate. And the
- 21 right column gives you then the \$1.40 adjusted.
- 22 So what you have in this column is that
- 23 based on the CPI basket, this amount purchased the
- 24 same amount of that basket in every year.
- JUDGE STRICKLER: Dr. Lys, you are

- 1 referring to the SDARS I determination and you said
- 2 one of the, at the outset, particularly good feature
- 3 of it is that there is a market rate that was
- 4 derived by the Judges at that time of \$1.40 per
- 5 subscriber before any impact with regard to the four
- 6 801(b)(1) factors, correct?
- 7 THE WITNESS: Correct.
- 8 JUDGE STRICKLER: That rate that was
- 9 derived -- well, first of all, let me ask you, aside
- 10 from knowing the rate from the SDARS I
- 11 determination, did you read the SDARS I
- 12 determination?
- 13 THE WITNESS: I read it, but I did not --
- 14 I'm not opining on it.
- JUDGE STRICKLER: Do you know whether
- 16 that \$1.40 per-subscriber per month was based upon
- 17 the presence of a steering adjustment or the ability
- 18 of -- of Sirius or XM, those two entities at the
- 19 time, to be able to steer and whether or not that
- 20 issue was even developed in that proceeding?
- 21 THE WITNESS: I have not studied that.
- 22 And so I would have to say that at this point my
- 23 recollection is simply not precise enough to answer
- 24 your question.
- JUDGE STRICKLER: So it is fair to say

- 1 you are saying the \$1.40 per-subscriber per month
- 2 rate was based on the evidence of a market rate as
- 3 presented and accepted and credited by the Judges in
- 4 that case, whatever that evidence may have been?
- 5 THE WITNESS: That's correct.
- JUDGE STRICKLER: Thank you.
- 7 THE WITNESS: That's correct.
- 8 BY MR. WARREN:
- 9 Q. Professor, what is the \$1.40
- 10 per-subscriber rate when calculated in 2016 dollars?
- 11 A. So in 2016 dollars, you would have \$1.68.
- 12 That's the same purchasing power as the \$1.40 in
- 13 2006.
- Q. And, again, how did you arrive at that
- 15 calculation?
- 16 A. Simply by adjusting each subsequent row
- 17 for the then prevailing inflation rate as determined
- 18 by the Consumer Price Index.
- 19 Q. Did Professor Shapiro compute a
- 20 per-subscriber rate that he thinks should be
- 21 applicable during this coming rate period?
- 22 A. I believe so, yes.
- Q. And what was that rate?
- 24 A. That would be \$1.03.
- Q. And do you have an opinion as to how that

- 1 \$1.03 is so different than the \$1.68 that would be
- 2 the SDARS I rate adjusted to 2016 dollars?
- 3 A. Well, Professor Shapiro, I think,
- 4 testified -- and, you know, I'm sure that his report
- 5 speaks for themselves -- but he determined it
- 6 without any respect to the SDARS I proceeding, he
- 7 just opined based on his comparison what that rate,
- 8 according to his beliefs or analyses would be in
- 9 2016, but it is roughly 40 percent less than would
- 10 be if you simply adjusted \$1.40 for inflation.
- 11 Q. And do you think that 40 percent
- 12 reduction from an inflation adjusted market rate is
- 13 warranted?
- 14 A. This is not something I studied.
- 15 Q. Professor, why did you adjust the SDARS I
- 16 per-subscriber rate instead of the rate established
- 17 in SDARS II?
- 18 A. Well, as I said in my introduction, the
- 19 beauty of SDARS I is that we got kind of the
- 20 intermediate results before application of the
- 21 801(b) factors. In SDARS II, we simply didn't get
- 22 that. We got the statutory rate after adjustments.
- 23 So it is impossible to know, at least from the
- 24 ruling, what the Judges believed was the market rate
- 25 at that time.

- 1 Q. Professor, have you attempted to
- 2 calculate what the \$1.68 per-subscriber rate would
- 3 be equal to when expressed as a
- 4 percentage-of-revenue rate?
- 5 A. Yes. So if you apply that to the gross
- revenue in 2016, which is the method that has been
- 7 ruled, that would amount to 15.7 percent.
- 8 Q. Now, was part of your assignment to
- 9 analyze whether 15.7 percent is actually an
- 10 appropriate royalty rate?
- 11 A. No, not at all.
- 12 O. Then what does a 15.7 percent royalty
- 13 rate represent to you?
- 14 A. So if you took the gross revenue in 2016
- 15 and multiplied it by 15.7, and divided by the number
- 16 of subscribers per month, you would get \$1.68. So
- 17 this is simply translating it into the gross revenue
- 18 as of 2016.
- 19 JUDGE STRICKLER: Just with this analysis
- 20 alone, before you get into further analyses, as you
- 21 have, this doesn't tell us whether the rate should
- 22 be -- percentage rate should be higher or even lower
- 23 than 15.7 percent, it just says if we extrapolate
- 24 out from SDARS I, this would be the rate?
- THE WITNESS: Yes, but it offers another

- 1 window because if you think it is higher or lower,
- 2 then I think the focus should be what has changed
- 3 since 2006?
- JUDGE STRICKLER: Well, that's why -- I'm
- 5 sorry. That's why I asked the question about what
- 6 evidence, if you had seen it, was in SDARS I. There
- 7 may be evidence that suggests it should be lower.
- 8 It might be the absence that evidence that suggests
- 9 it should be lower or there may be evidence or
- 10 absence of evidence that suggests it should be
- 11 higher, which of course you are going to talk about
- 12 in much greater detail in your testimony, but it
- 13 doesn't tell us anything other than bringing the
- 14 SDARS I rate up to present value in dollar terms.
- 15 THE WITNESS: Yes. Well, I hate to give
- 16 up so much territory, but --
- JUDGE STRICKLER: Only if you have to.
- 18 THE WITNESS: Well, because I think there
- 19 is an importance there because it actually puts the
- 20 framework, right? If you want to say it is other
- 21 than 15.7 percent, then it kind of channels the
- 22 discussion of what has changed in which direction.
- JUDGE STRICKLER: Well, you have a
- 24 background in behavioral finance and behavioral
- 25 economics, so it sounds like you are trying to tell

- 1 us don't follow a -- don't lose your path
- 2 dependence, look at this with fresh eyes. Is that
- 3 what you are really saying?
- 4 THE WITNESS: No, I am not trying to
- 5 anchor you.
- 6 JUDGE STRICKLER: That's what I am
- 7 saying. You are trying to unmoor us?
- 8 THE WITNESS: No, what I'm trying to do
- 9 is I'm trying to give you a framework by which to
- 10 evaluate another way of thinking about that. So if
- 11 you think it should be lower, then I'm giving you a
- 12 framework. What has changed since 2006 that would
- 13 make it lower?
- 14 So it is more like kind of giving you
- 15 analytic framework that allows you to evaluate
- 16 whether you are moving, from an economics
- 17 perspective, I am not testifying to any legal
- 18 aspects, in which direction to move and by how much.
- 19 But, again, this is -- how to adjust this \$1.68 is
- 20 not part of what I was asked to study.
- JUDGE STRICKLER: Thank you.
- 22 BY MR. WARREN:
- Q. Professor, following up on that idea,
- 24 have you examined whether a 15.7 percent of revenue
- 25 rate or \$1.68 per-subscriber rate would cause any

- 1 kind of disruptive impact on Sirius XM's business?
- 2 A. Yes, I have.
- 3 Q. And what did you conclude?
- 4 A. I concluded that it wouldn't be
- 5 disruptive in the least. I'm sure we're going to
- 6 dig into the details, but essentially I did what is
- 7 sometimes referred to in economics as a stress
- 8 analysis.
- 9 So what I did is I artificially increased
- 10 the rate and asked would Sirius XM from a financial
- 11 perspective be at risk in many, many dimensions.
- 12 And I have done this analysis two ways. One is I
- 13 have used 24 percent as the -- what if the statutory
- 14 rate were cranked up to 24 percent?
- 15 And then I asked the reverse question,
- 16 how high could that statutory rate be before,
- 17 relative to comparable companies, Sirius XM starts
- 18 falling off?
- 19 Q. So, Professor, I direct your attention to
- 20 the next screen, which is not restricted despite
- 21 having numbers. Can you explain for us what this
- 22 figure shows? And the first question is is this an
- 23 accurate reproduction of figure 33 from your written
- 24 direct testimony?
- 25 A. It is.

- 1 Q. Okay. What does this show?
- 2 A. So what I did is I chose three of the
- 3 most popular metrics by which financial economists
- 4 assess a company; how well it is doing. And so it
- 5 is return on assets, it is EBITDA, which is like an
- 6 operating cash flow, and it is free cash flow. That
- 7 means cash flows from operations minus investments.
- And these are, you know, obviously every
- 9 financial analyst has their, his or her own metrics,
- 10 but this is probably the three most important
- 11 metrics that financial analysts would consider when
- 12 analyzing a company.
- 0. Professor, before we dive into the
- 14 numbers, the right-hand column is labeled "average
- 15 for SIC 483." What does that mean?
- 16 A. Well, so this tries to put it into
- 17 context. And what we have in the United States is
- 18 we have companies grouped into industries. And the
- 19 reason to do so is I want to control for similar
- 20 economic conditions.
- So -- and these classifications go
- 22 either, you know, four digits, three digits, two
- 23 digits, or one digit. The fewer digits, the coarser
- 24 the metric. So 483 is, includes both broadcasting,
- 25 so radio, and television.

- 1 If you went just broadcasting, it would
- 2 be 4832. So it would be an additional digit. I
- 3 have chosen to go to the 483 as opposed to 4832.
- JUDGE STRICKLER: Dr. Lys, when you were
- 5 identifying performance metrics, were there some
- 6 that you considered and decided were not appropriate
- 7 for the task at hand?
- 8 THE WITNESS: No, no.
- 9 JUDGE STRICKLER: Did you consider
- 10 contribution margin?
- 11 THE WITNESS: No, I did not.
- JUDGE STRICKLER: Why not?
- 13 THE WITNESS: Because contribution margin
- 14 by itself is not a relevant metric.
- 15 JUDGE STRICKLER: I may be getting ahead
- 16 of ourselves, but be that as it may, why not?
- 17 THE WITNESS: Because contribution
- 18 margin, without the number of sales revenue, tells
- 19 you nothing. So you can have a contribution margin
- 20 of 70 percent and end up losing money. Why?
- 21 Because revenues simply are not large enough.
- 22 You can have contribution margin at
- 23 70 percent and you are making a ton of money. Why?
- 24 Because you have 30 million subscribers, and 30
- 25 million subscribers times \$12.50 a month.

- 1 JUDGE STRICKLER: One last question on
- 2 this, just so we have a framework. Can you define
- 3 contribution margin?
- 4 THE WITNESS: So contribution margin is
- 5 the difference between the price that the company
- 6 receives minus its variable costs, divided by the
- 7 sales price. So this essentially says of each sales
- 8 dollar, how much do I get to what is fixed costs and
- 9 profits?
- 10 So when, let's get real, Sirius XM has
- 11 contribution margin that starts a little bit below
- 12 70 percent and ends up a little bit above 70. But
- 13 let's use 70 percent as an example. For each
- 14 revenue dollar, Sirius XM gets 70 cents to cover its
- 15 fixed costs and then to create a profit.
- 16 So contribution margin is an important
- 17 metric, but by itself it tells you nothing because
- 18 it doesn't know at which level. Do you have enough
- 19 sales to even cover your fixed cost? You may have a
- 20 contribution margin of 70 percent, but you simply
- 21 don't sell enough widgets, and, therefore, you are
- 22 still losing money.
- JUDGE STRICKLER: Because price received
- 24 in the formula for contribution margin doesn't refer
- 25 to revenues, it only refers to price?

- 1 THE WITNESS: No, it is price times
- 2 quantity, times N, the number of subscribers.
- JUDGE STRICKLER: And why doesn't it
- 4 reflect revenue?
- 5 THE WITNESS: Well, that's revenue, the
- 6 product of those two is revenue. And so you need,
- 7 in order to make a profit, you need to have a large
- 8 contribution margin and lots of sales.
- JUDGE STRICKLER: We will probably be
- 10 getting back to that, but thank you.
- 11 THE WITNESS: Yes.
- 12 BY MR. WARREN:
- 13 Q. Professor, do you intend to offer
- 14 testimony about contribution margin a little later
- 15 in your testimony?
- 16 A. Of course, yes.
- Q. And just to close the loop on that, you
- 18 are saying that a company's profitability can
- 19 decline notwithstanding a stable contribution margin
- 20 if its sales goes down over time; is that right?
- 21 A. Yes. So let me maybe just add one more
- 22 thing to Judge Strickler's question. You see what
- 23 these metrics do is they allow you to compare across
- 24 companies just by themselves.
- So if I told you the ROA for company 1 is

- 1 this and the ROA for company 2 is that, it will tell
- 2 you which one you want to invest your money in.
- JUDGE STRICKLER: So you are saying --
- 4 I'm sorry, go ahead and finish your thought.
- 5 THE WITNESS: If I told you the
- 6 contribution margin of company 1 is this, and the
- 7 contribution margin of company 2 is that, by itself
- 8 you still didn't know which one is the better
- 9 company because one could have a lower contribution
- 10 margin but so much more sales that it actually is
- 11 more attractive.
- 12 And the company has a strategy, right? A
- 13 company can do business by having low fixed cost and
- 14 low variable cost or it can have high fixed cost and
- 15 lower variable cost. And these are results of its
- 16 decision, you know, more machines and less workers
- 17 or fewer machines and more workers. That's going to
- 18 change that mix.
- 19 And so by itself, if I told you one
- 20 company has a 70 percent contribution margin, and
- 21 the other one has only a 30, you still don't know
- 22 which one is the better company.
- 23 JUDGE STRICKLER: So contribution margin
- 24 is not a good metric to compare across companies?
- 25 THE WITNESS: That's right.

- 1 JUDGE STRICKLER: Is it a fair measure to
- 2 compare the position of one given company from one
- 3 point in time to another?
- 4 THE WITNESS: Look, I mean, so --
- JUDGE STRICKLER: Can you answer that one
- 6 yes or no?
- 7 THE WITNESS: Yes.
- 8 JUDGE STRICKLER: And then an
- 9 explanation?
- 10 THE WITNESS: Yes, it is clear, I mean,
- 11 essentially what you are asking is would you rather
- 12 be rich and healthy, and the answer is yes, I would
- 13 rather have a higher contribution margin. So that
- 14 by itself, but I still don't know how even to
- 15 leverage it up.
- JUDGE STRICKLER: Thank you.
- 17 BY MR. WARREN:
- 18 Q. So, Professor, just again to close the
- 19 loop, it is possible that a company's contribution
- 20 margin could be modestly increasing over time and
- 21 yet the company is becoming increasingly less
- 22 profitable over time?
- 23 A. Yes, if it, for example, loses
- 24 subscribers, or is no longer able to charge a
- 25 highest price per-subscriber.

- 1 O. And if you looked just at the trend in
- 2 contribution margin, would you be able just using
- 3 that data point to assess the company's
- 4 profitability over time?
- 5 A. No.
- 6 O. Okay. Now, let's return to this screen,
- 7 if we can. You said that SIC 483 includes radio and
- 8 TV companies; is that correct?
- 9 A. That's correct.
- 10 Q. Now, is it your understanding that Sirius
- 11 XM considers itself to compete with terrestrial
- 12 radio, meaning AM/FM?
- 13 A. Yes.
- 14 Q. And is that included in the SIC 483
- 15 category?
- 16 A. Yes, it is, to the extent that they are
- 17 public.
- 18 Q. Okay. So we have here one column that is
- 19 those companies and the other column is Sirius XM's
- 20 performance at a 24 percent royalty rate. Is that
- 21 right?
- 22 A. Yes, yes.
- Q. Now how does Sirius XM at a 24 percent
- 24 royalty rate compare in terms of its return on
- 25 assets, assets, excuse me, to the SIC 483 companies?

- 1 A. Yes. So you can see it beats it by over
- 2 50 percent.
- Q. And how does Sirius XM at a 24 percent
- 4 royalty rate compare to those other companies in
- 5 terms of EBITDA margin?
- A. Again, it beats it by roughly 50 percent,
- 7 not quite, but almost.
- 8 Q. And what about free cash flow margin?
- 9 A. It beats it by a long mile. But let me
- 10 add, just so we're on the same page and the record
- 11 is clear, the stress test that I performed, Your
- 12 Honors, is a very conservative stress test because
- 13 while I have cranked up the royalty rate, I have not
- 14 allowed the company to pass on any of that to its
- 15 customers. Do you understand?
- And we know that Sirius XM, in fact, does
- 17 pass on some of its to its music royalty. So in
- 18 reality -- and we know that in a perfectly
- 19 competitive market, you would pass on everything.
- 20 And in a monopolistic market, if you have market
- 21 power, you would pass on some, but not all,
- 22 depending on the elasticity of demand that you face.
- 23 So in reality, if we really did this
- 24 experiment correctly and allowed Sirius XM to pass
- 25 on some of the 24 percent to its customers, then its

- 1 ROA, its EBITDA margin, and its free cash flow
- 2 margins would be even higher.
- Q. Okay. Professor, in order for us to set
- 4 those conclusions in context, I think it would help
- 5 if you could review some basics about Sirius XM's
- 6 financial performance.
- 7 I think we will have to close the
- 8 courtroom in a minute, but before we do that, in
- 9 terms of past performance, how has Sirius XM been
- 10 doing financially?
- 11 A. Fantastic.
- 12 Q. How do you know?
- 13 A. Well, I have analyzed it over, over the
- 14 past.
- 15 Q. And what measures did you consider when
- 16 assessing Sirius XM's fantastic financial
- 17 performance?
- 18 A. Well, I have looked at how its revenue
- 19 base grew. I looked at its cost and then ultimately
- 20 I looked at what really, really matters and that is
- 21 free cash flows.
- Q. And, Professor, did you examine Sirius
- 23 XM's annual budgets in the course of that analysis?
- 24 A. Yes, I have.
- Q. I would direct your attention to the

- 1 third binder, binder 3 of 3. I would like you to
- 2 take a quick skim through Exhibits 307, 308, 309,
- 3 and 310.
- JUDGE BARNETT: Before we go there,
- 5 counsel, Professor, on your figure 33, you indicate
- 6 that the SIC category 483 includes broadcast radio
- 7 and television.
- 8 THE WITNESS: Correct.
- 9 JUDGE BARNETT: And that's network
- 10 television, correct, free television, not cable?
- 11 THE WITNESS: I need to check. I believe
- 12 there is also -- but that's something I would have
- 13 to ask Mr. Reitman -- no, just kidding.
- 14 (Laughter)
- 15 JUDGE BARNETT: Is there any breakout of
- 16 the television versus radio statistics?
- 17 THE WITNESS: No. But I could have done
- 18 it for 4832. That would have taken all the
- 19 televisions out.
- JUDGE BARNETT: I see, okay.
- 21 THE WITNESS: And actually that category
- 22 looks terrible. A very large number of the
- 23 companies in the 4832 category actually lose money.
- JUDGE BARNETT: So it looks terrible for
- 25 --

- 1 THE WITNESS: It makes the comparison
- 2 even more dramatic. And I just didn't want to have
- 3 such -- you know, I am not sure how many of those
- 4 will survive.
- JUDGE BARNETT: Thank you.
- 6 BY MR. WARREN:
- 7 O. And, Professor, I can direct your
- 8 attention and the Judges' attention as well to
- 9 Appendix B of your written direct testimony, page
- 10 B-1. And this actually appears to list the 25
- 11 companies that are included in SIC 483.
- 12 A. Let me go there. So this would be B-1,
- 13 you say? Yes.
- Q. And this is just by way of reference. So
- 15 the kinds of companies included including CBS,
- 16 iHeart media, Pandora Media, Radio One, do you see
- 17 this?
- 18 A. Yes, yes.
- 19 Q. Okay. And 4832 is listed in Figure 74;
- 20 is that right?
- 21 A. Yes.
- 22 Q. Okay. So, Professor, I was about to have
- 23 you look at Exhibits 307 to 310. Could you just
- 24 briefly tell us what those are?
- MR. TOLIN: I apologize for the

- 1 additional intrusion. For the record we would
- 2 object to the use of all four of these exhibits on
- 3 the grounds, if you just look at the title page of
- 4 each one --
- 5 JUDGE STRICKLER: Can you list the
- 6 exhibit number as you do that?
- 7 MR. TOLIN: It is 307. It looks like it
- 8 is in binder 3.
- JUDGE STRICKLER: Thank you.
- 10 MR. WARREN: Your Honors, I would object
- 11 to the objection before I have actually sought to
- 12 move the exhibits into evidence because I would like
- 13 a chance for the Professor to actually tell us what
- 14 they are.
- 15 MR. TOLIN: Fair enough.
- 16 JUDGE BARNETT: Let's have him identify
- 17 them for the record.
- 18 MR. TOLIN: Fair enough. Thank you.
- 19 THE WITNESS: Okay. So these are
- 20 exhibits produced by Sirius XM, and these are
- 21 budgets for its upcoming years. So each one lists
- 22 the preliminary results for the year in which they
- 23 are produced and then what the budgets are for the
- 24 following year.
- 25 BY MR. WARREN:

- 1 Q. These are for years 2013, 2014, 2015, and
- 2 2016 respectively?
- 3 A. That's correct, yes.
- Q. Okay. And you reviewed these and relied
- 5 on them in the course of your financial analysis?
- 6 A. Yes, I did.
- 7 Q. All right.
- 8 MR. WARREN: At this time, Your Honors, I
- 9 would move that Exhibits 307, 308, 309, and 310 be
- 10 admitted into evidence.
- MR. TOLIN: And we would object, Your
- 12 Honor. If you look at the title to each one of
- 13 these, you will see for the first one, for example,
- 14 which is 307, it states 2012 preliminary results and
- 15 2013 budget. The same titles for the others.
- 16 And our objection is that Professor Lys
- 17 is not in a position to be a sponsoring witness to
- 18 lay the foundation for these documents. It is one
- 19 thing for him to review it and for him to have
- 20 relied on it. It is another to use it as a vehicle
- 21 to move into evidence, move into evidence documents
- 22 to which he doesn't have the personal knowledge.
- 23 As counsel knows, there is going to be
- 24 executives from Sirius who will testify, and we
- 25 would maintain that witnesses with actual personal

- 1 knowledge of the documents would be the appropriate
- 2 witnesses for which to lay the foundation and to
- 3 seek admission of these documents.
- 4 MR. WARREN: Your Honor --
- 5 JUDGE STRICKLER: Excuse me. I had
- 6 referred to these documents as having preliminary
- 7 results and then you said and so on, but, in fact,
- 8 309 and 3010 don't say preliminary, they say
- 9 results, right?
- 10 MR. TOLIN: I apologize, Your Honor.
- 11 That's true. Thank you for the correction. I
- 12 apologize. That is true for 307 and for 308. You
- 13 are right. That is not the case for 309 and for
- 14 310.
- But, again, our objection is that
- 16 Professor Lys is not in a position to testify as to
- 17 the accuracy of the documents, despite the fact that
- 18 the last two say final results.
- 19 There will be a Sirius witness here who
- 20 we would maintain would be the right sponsoring
- 21 witness to the extent they can lay a foundation
- 22 through that witness.
- MR. WARREN: And, Your Honors, I would
- 24 argue that this is an attempt to assert an
- 25 authenticity objection, which has already been

- 1 waived, and as that objection did not appear on the
- 2 joint exhibit list. I think the foundation is
- 3 established simply by virtue of the fact that
- 4 Professor Lys considered these documents and relied
- 5 on them, coupled with the fact that they were
- 6 produced by Sirius XM and bear Sirius XM's own Bates
- 7 numbers.
- 8 I think there is sufficient indicia of
- 9 reliability given that. And to the extent that
- 10 counsel or Sirius XM has an argument that there are
- 11 updated budgets that should be considered, I think
- 12 that speaks to the weight rather than the
- 13 admissibility of these documents.
- 14 And certainly in due course when the fact
- 15 witnesses arrive, those arguments could be heard.
- 16 JUDGE STRICKLER: Counsel, if I
- 17 understood you correctly, you are saying when Sirius
- 18 XM is going to put on fact witnesses who will, in
- 19 fact, lay a foundation for these documents and then
- 20 you will offer them in evidence?
- MR. TOLIN: No, what I'm saying is if
- 22 they seek to admit this document or these series of
- 23 documents into evidence, they will have a witness
- 24 before them who they can seek to try to lay a
- 25 foundation with. This is not an authenticity

- 1 objection at all.
- The question is there has to be a
- 3 sponsoring witness for the evidence. And our
- 4 position is Professor Lys is not in a position to
- 5 testify with any personal knowledge as to the
- 6 accuracy of these -- of this information.
- 7 He can rely on it and he can refer to it
- 8 and it can help him potentially inform his opinions
- 9 as Your Honors have set forth, but he can't be a
- 10 conduit to information to which he is not the right
- 11 sponsoring witness for.
- 12 JUDGE STRICKLER: But Sirius XM is not
- 13 intending to offer these into evidence?
- MR. TOLIN: Candidly I am not sure of
- 15 that but my --
- 16 JUDGE BARNETT: Can you find that out?
- 17 Because if it is otherwise going to be in evidence,
- 18 that would be an important thing to know.
- MR. TOLIN: My understanding is it is not
- 20 our intent to move in that evidence through direct
- 21 examination. But they will obviously have an
- 22 opportunity to use that document, those documents on
- 23 cross-examination, if they can lay the right
- 24 foundation.
- MR. WARREN: Your Honor, I would simply

- 1 point out that by virtue of how the schedule in this
- 2 proceeding is set up, none of the fact witnesses
- 3 will be testifying before the expert witnesses are
- 4 done. So if that logic is extended, I don't think
- 5 any documents can really be moved into evidence
- 6 until the fact witnesses show up.
- 7 But that does not seem to be the right
- 8 course of action just simply by virtue of the fact
- 9 that we couldn't get the fact witnesses on the
- 10 stand, you know, in advance.
- JUDGE BARNETT: Exhibits 307 and 308 will
- 12 be admitted not for the truth of the matter, since
- 13 they do say preliminary and it is a budget and we
- 14 don't really know what the actuals are for those
- 15 years.
- 16 309 and 310 are not so qualified and for
- 17 that reason can be admitted.
- 18 (SoundExchange Exhibit Numbers 307, 308,
- 19 309, 310 were marked and received into evidence.)
- MR. WARREN: Thank you, Your Honors.
- 21 JUDGE STRICKLER: And are you offering
- 22 all of them, in any event, including the ones that
- 23 were preliminary for the purpose -- at least for the
- 24 purpose of establishing what this witness relied on?
- MR. WARREN: Yes.

- 1 JUDGE BARNETT: Oh, did I not say that?
- 2 I'm sorry. I was thinking it, but it must be after
- 3 3:00. The first two --
- JUDGE STRICKLER: You did say it, I'm
- 5 sorry. It is after 3:00.
- 6 (Laughter)
- 7 MR. WARREN: And I would say just as a
- 8 general concern that, of course, Professor Lys
- 9 doesn't work at Sirius XM and will not, if we are to
- 10 interpret the foundation objection in the broad
- 11 manner that counsel seems to assert, of course was
- 12 not present when any of these documents were
- 13 created, but be offering these into evidence to the
- 14 extent he relied on them and considered their
- 15 probative value in coming up with his own economic
- 16 assessment.
- JUDGE BARNETT: Thank you.
- MR. WARREN: Thank you, Your Honor.
- 19 BY MR. WARREN:
- 20 Q. Now at this time I would appreciate it if
- 21 we could close the courtroom. We're going to be
- 22 discussing some forecasts about Sirius XM's future
- 23 growth.
- I think Sirius XM's personnel, of course,
- 25 can stay for this, they are privy to that

information. So I suppose this really only affects Mr. Prendergast. JUDGE BARNETT: We took an abbreviated 3 break earlier. Why don't we take another ten 4 minutes at this point and that will give people a 5 chance to sort themselves out. 6 (A recess was taken at 3:32 p.m., after 7 which the hearing resumed at 3:54 p.m.) 8 JUDGE BARNETT: Please be seated. 9 10 you. Mr. Warren, you were directing us to some 11 exhibits and asking that we close the hearing room; 12 is that right? 13 MR. WARREN: Yes, Your Honors. 14 Thank 15 you. 16 JUDGE BARNETT: Sirius XM folks may stay, 17 correct? 18 MR. WARREN: Yes, Your Honor. JUDGE BARNETT: But otherwise if you are 19 not privy to restricted information, I think 20 everyone has left already. Thank you. 21 (Whereupon, the trial proceeded in 22 23 confidential session.)

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1		C O N	TENT	S	
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3	JONATHAN OR	SZAG			
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5	THOMAS LYS				
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13					
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18	SoundExchan	ge			
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23	307		1331		
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1	CERTIFICATE
2	
3	I certify that the foregoing is a true and
4	accurate transcript, to the best of my skill and
5	ability, from my stenographic notes of this
6	proceeding.
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10	Date Signature of the Court Reporter
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